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Annual Statistical Report

AMERICAN
IRON AND STEEL
INSTITUTE

1984



AMERICAN IRON AND STEEL INSTITUTE
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FOREWORD

The majority of the data found in the Annual Statistical Report is compiled from submissions by reporting companies, although some data from other published sources are also included. This report largely represents the steel activities of reporting companies.

Beginning with this edition, a financial series (1979-84) has been established which statistically segregates the Steel Segment and the total corporate results on the balance sheet, income and cash flow statements. This has been initiated to more effectively present an accurate portrayal of the steel sector operations of the reporting companies without dilution or distortion from non-steel operations. However, it should be recognized that the segregation is *statistical only* since the allocation of some items on the balance sheet, such as long term debt, deferred taxes and equity between steel and non-steel operations, requires each participating company to exercise judgement based on its individual facts and circumstances.

NOTES

D—Disclosure

P—Preliminary

R—Revised

n.a.—Not available

Net ton—2,000 pounds

Gross ton—2,240 pounds

() Indicates loss or negative number.

Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

SELECTED HIGHLIGHTS THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a six or ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there may be a difference in the universe of reporting companies for the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1983 and 1984 represents companies who in 1984 produced 83.3% of the reported raw steel production.

SELECTION STATISTICAL HIGHLIGHTS

Table 1A
Shipments, Apparent Supply, Imports & Employment
(Thousands)

Year	Steel Mill Products—Net Tons				Imports as % of U.S. Apparent Steel Supply					Steel Employment (a)
	Total Net Shipments	Less Exports	Plus Imports	U.S. Apparent Steel Supply	Total	Japan	EEC	Canada	Other	Average No. of Employees
1984	73,739	980	26,163	98,922	26.4	6.7	6.4	3.2	10.1	236
1983	67,584	1,199	17,070	83,455	20.5	5.1	4.9	2.9	7.6	243
1982	61,567	1,842	16,663	76,388	21.8	6.8	7.3	2.4	5.3	289
1981	88,450	2,904	19,898	105,444	18.9	5.9	6.1	2.7	4.2	391
1980	83,853	4,101	15,495	95,247	16.3	6.3	4.1	2.5	3.4	399
1979	100,262	2,818	17,518	114,962	15.2	5.5	4.7	2.0	3.0	453
1978	97,935	2,422	21,135	116,648	18.1	5.6	6.4	2.0	4.1	449
1977	91,147	2,003	19,307	108,451	17.8	7.2	6.3	1.7	2.6	452
1976	89,447	2,654	14,285	101,078	14.1	7.9	3.2	1.3	1.7	454
1975	79,957	2,953	12,012	89,016	13.5	6.6	4.6	1.1	1.2	457
Details on Page:	32	42	52		55	55	55	55	55	22

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

Table 1B
Raw Steel Data
(Thousands of net tons)

Year	United States					Percent of U.S. Production				
	World Production	Production	% of World	Capability	% of capability	By Type of Furnace			By Type Cast	
						OH	BOP	Elec.	Ingots	Continuous
1984	782,212	92,528	11.8	135,300	68.4	9.0	57.1	33.9	60.3	39.6
1983	730,930 ^a	84,615	11.6	150,600	56.2	7.0	61.5	31.5	67.8	32.1
1982	710,738	74,577	10.5	154,000	48.4	8.2	60.7	31.1	70.9	29.0
1981	779,399	120,828	15.5	154,300	78.3	11.1	60.6	28.3	78.2	21.6
1980	790,419	111,835	14.2	153,700	72.8	11.7	60.4	27.9	79.5	20.3
1979	824,486	136,341	16.5	155,300	87.8	14.0	61.1	24.9	82.9	16.9
1978	790,607	137,031	17.3	157,900	86.8	15.6	60.9	23.5	84.6	15.2
1977	741,828	125,333	16.9	160,000	78.4	16.0	61.8	22.2	87.3	12.5
1976	745,592	128,000	17.2	158,300	80.9	18.3	62.5	19.2	89.3	10.6
1975	712,033	116,642	16.4	153,100	76.2	19.0	61.6	19.4	90.7	9.1
Details on Page:	112	72	112		75	72	72	72	73	73

SELECTED FINANCIAL HIGHLIGHTS

Table 1C

Income Data

(Millions of Dollars)

Year	Total Corporation Results				Steel Segment Results			
	Net Sales	Net Income			Net Sales	Net Income		
		Amount	% of Net Sales	% of Equity†		Amount	% of Net Sales	% of Equity†
1984	\$53,619	\$ (301)	(0.6)	(2.0)	\$30,132	\$ (186)	(0.6)	(2.3)
1983	45,974	(2,603)	(5.7)	(13.4)	24,463	(2,231)	(9.1)	(19.8)
1982	55,255	(3,155)	(5.7)	(13.8)	28,239	(3,384)	(12.0)	(22.0)
1981	64,013	3,258	5.1	16.2	43,109	1,653	3.8	11.4
1980	55,313	1,634	3.0	8.6	37,163	681	1.8	4.8
1979	55,790	1,410	2.5	7.8	40,373	806	2.0	5.8
Details on Page:	12	12	12	12	13	13	13	13

†Based on stockholders' equity as of Dec. 1 of the prior year.

Table 1D

Cash Flow Data

(Millions of Dollars)

Year	Total Corporation Results				Steel Segment Results			
	Capital Expend.	Cash Provided From (Used for)		Inc. (Dec.) In Cash & Mkt. Secs.	Capital Expend.	Cash Provided From (Used for)		Inc. (Dec.) In Cash & Mkt. Secs.
		Operating	Financing			Operating	Financing	
1984	\$2,432	\$2,807	\$ 78	\$ (131)	\$1,189	\$ 741	\$ 373	\$ (44)
1983	3,137	944	1,179	(363)	1,850	(394)	1,556	(302)
1982	4,325	2,131	6,300	(2,439)	2,258	956	2,009	(224)
1981	3,506	5,614	435	1,608	2,371	3,549	(506)	(35)
1980	3,665	3,928	578	106	2,651	2,543	690	(146)
1979	3,823	3,285	995	(283)	2,469	2,545	315	(216)
Details on Page:	16	16	16	16	17	17	17	17

Selected Financial Highlights (Continued)

Table 1E
Capital Expenditures for Environmental Facilities
 (Millions of Dollars)

Year	Water	Air	Solid Waste*	Total
1951-1965	\$ 209.6	\$ 238.8		\$ 448.4
1966-1970	315.9	256.9		572.8
1971-1975	439.3	790.6		1,229.9
1976	158.7	330.5		489.2
1977	205.7	329.1		534.8
1978	180.8	277.2		458.0
1979	201.2	449.6		650.8
1980	168.2	342.3	7.5	518.0
1981	119.4	369.8	6.6	495.8
1982	104.6	157.3	2.6	264.5
1983	55.6	84.6	2.7	142.9
1984	53.3	79.6	4.8	137.7
Total	\$2212.3	\$3706.3	\$24.2	\$5942.8

*Data not available prior to 1980.

NOTE: Capital expenditures in the above table include only those for facilities which were installed primarily for environmental control in domestic iron and steelmaking sectors, including steel company owned mines, quarries and fabricating plants. Total capital expenditures for all purposes, as shown in Table 1D include those made by steel companies in both steel and nonsteel operations, domestic and foreign.

FINANCIAL STATISTICS

Financial data for 1983 and 1984 includes companies which made up 83.3% of the reported total raw steel production of the entire industry in 1984. Other years are based on results of companies representing varying percentages of the entire industry. As stated in the Foreword, a financial series has been established in this edition which statistically segregates the steel segment and the total corporate results on the balance sheet, income and cash flow statements.

Table 2
Income Statement
Total Corporation

(Millions of Dollars)

	1984	1983	1982	1981	1980	1979
REVENUES:						
Sales (Net billing value of products shipped and other services).....	\$53,618.9	\$45,973.8	\$55,255.3	\$64,012.6	\$55,312.9	\$55,789.8
Interest, dividends and other income.....	453.3	634.5	1,042.8	1,298.1	931.8	683.4
Total Revenue	54,072.2	46,608.3	56,298.1	65,310.7	56,244.7	56,473.2
COSTS:						
Employment Costs.....	14,562.1	13,552.2	17,771.8	20,643.9	19,093.4	18,913.3
Materials, supplies, freight and other services, etc.	32,972.6	28,766.9	35,919.0	37,671.1	32,184.6	32,185.9
Depreciation, depletion and amortization.....	2,513.0	2,342.7	2,562.4	2,178.6	2,023.5	1,924.3
Interest and other financial costs.....	2,047.4	1,675.6	1,794.3	938.1	934.0	809.4
Taxes other than income.....	1,715.7	1,600.8	NA	NA	NA	NA
Taxes on income.....	594.3	(215.7)	(498.2)	1,719.7	508.8	454.5
Loss or (gain) on sales of assets (a).....	(444.6)	(35.3)	1,947.8	(1,070.1)	(133.7)	797.6
Loss or (gain) on provision for costs attributable to shutdown of facilities (a).....	342.7	1,696.3	—	—	—	—
Unusual items.....	182.9	39.3	(44.1)	(28.5)	—	(21.4)
Total Costs	54,486.1	49,422.8	59,453.0	62,052.8	54,610.6	55,063.6
Extraordinary and other items net of taxes.....	112.9	211.4	NA	NA	NA	NA
Net Income	\$ (301.0)	\$ (2,603.1)	\$ (3,154.9)	\$ 3,257.9	\$ 1,634.1	\$ 1,409.6
Percent return on Sales.....	(0.6)	(5.7)	(5.7)	5.1	3.0	2.5
Percent return on Stockholders' Equity (b).....	(2.0)	(13.4)	(13.8)	16.2	8.6	7.8

(a) Includes only pretax (gains) or losses which were separately disclosed in annual financial statements to stockholders.

(b) Based on stockholders' equity as of Dec. 31 of the prior year.

Totals do not necessarily add due to rounding.

MEMO: In 1984 reporting companies represent: 77.8 million net tons of raw steel production and 58.0 million net tons of shipments of finished steel products. Numbers of stockholders included 555,375 common and 64,184 preferred.

Table 2A
Income Statement
Steel Segment
(Millions of Dollars)

	1984	1983	1982	1981	1980	1979
REVENUES:						
Sales (Net billing value of products shipped and other services).....	\$30,132.1	\$24,462.2	\$28,238.6	\$43,109.3	\$37,162.7	\$40,373.1
Interest, dividends and other income	335.3	514.8	492.0	653.8	583.7	418.4
Total Revenue	30,467.4	24,977.6	28,730.6	43,763.1	37,746.4	40,791.5
COSTS:						
Employment Costs	9,432.9	8,650.8	12,199.4	15,165.2	13,826.2	14,117.9
Materials, supplies, freight and other services, etc.	18,919.3	15,664.6	17,181.9	24,201.9	21,181.0	23,085.2
Depreciation, depletion and amortization	1,387.1	1,290.5	1,471.6	1,617.5	1,528.1	1,482.9
Interest and other financial costs	826.2	616.5	600.0	487.4	499.3	489.1
Taxes other than income	363.6	371.2	NA	NA	NA	NA
Taxes on income	18.9	(720.4)	(1,335.1)	798.2	(3.9)	50.8
Loss or (gain) on sales of assets (a)	(314.2)	(20.0)	2,021.4	(132.0)	34.7	759.9
Loss or (gain) on provision for costs attributable to shutdown of facilities (a)	102.0	1,508.1	—	—	—	—
Unusual items	80.0	24.5	(24.8)	(28.5)	—	—
Total Costs	30,816.7	27,385.8	32,114.4	42,109.7	37,065.4	39,985.8
Extraordinary and other items net of taxes	163.2	177.1	NA	NA	NA	NA
Net Income	\$ (186.1)	\$ (2,231.1)	\$ (3,383.8)	\$ 1,653.4	\$ 681.0	\$ 805.7
Percent return on Sales	(0.6)	(9.1)	(12.0)	3.8	1.8	2.0
Percent return on Stockholders' Equity (b)	(2.3)	(19.8)	(22.0)	11.4	4.8	5.8

(a) Includes only pretax (gains) or losses which were separately disclosed in annual financial statements to stockholders.

(b) Based on stockholders' equity as of Dec. 31 of the prior year.

Totals do not necessarily add due to rounding.

MEMO: In 1984 reporting companies represent: 77.8 million net tons of raw steel production and 58.0 million net tons of shipments of finished steel products. Numbers of stockholders included 555,375 common and 64,184 preferred.

Table 3
Balance Sheet
Total Corporation

(Millions of Dollars)

ASSETS	1984	1983	1982	1981	1980	1979
Current Assets:						
Cash and marketable securities.....	\$ 1,220.9	\$ 1,343.9	\$ 1,759.3	\$ 4,178.0	\$ 2,560.7	\$ 2,450.9
Receivables, less allowances.....	6,174.4	6,406.1	5,767.1	8,878.2	8,002.1	6,958.9
Inventories.....	8,051.3	7,117.8	8,489.6	8,608.2	7,560.7	7,664.0
Other Current Assets.....	380.6	316.9	365.5	282.4	332.8	218.2
Total Current Assets.....	15,827.2	15,184.7	16,381.5	21,948.8	18,456.3	17,292.0
Long-term receivables & other investments.....	2,660.0	2,664.5	NA	NA	NA	NA
Fixed Assets:						
Property, plant & equipment.....	52,746.4	50,525.8	56,044.6	48,683.4	46,654.3	43,759.4
Less—Depreciation, depletion & amortization.....	(23,834.3)	(22,660.0)	(24,924.7)	(24,396.8)	(23,284.4)	(21,721.3)
Net Fixed Assets.....	28,912.1	27,865.8	31,119.9	24,286.6	23,369.9	22,038.1
Other Assets.....	2,952.5	2,311.7	6,012.0	5,146.8	5,281.3	4,766.4
Total Assets.....	\$50,351.8	\$48,026.7	\$53,513.4	\$51,380.2	\$47,107.5	\$44,096.5
LIABILITIES AND STOCKHOLDERS' EQUITY						
Current Liabilities:						
Accounts Payable.....	\$ 5,350.9	\$ 4,969.0	\$ NA	\$ NA	\$ NA	\$ NA
Accrued taxes incl. Federal income taxes.....	1,281.8	1,355.4	NA	NA	NA	NA
Long-term debt maturing within one year.....	1,277.5	614.5	501.3	492.5	344.0	383.4
All other current liabilities.....	4,534.6	4,353.3	10,812.1	11,728.4	10,719.9	9,692.9
Total Current Liabilities.....	12,444.8	11,292.2	11,313.4	12,220.9	11,063.9	10,078.3
Long-term debt less amount maturing within one year.....	14,114.5	14,443.1	15,832.0	9,934.8	10,355.5	9,659.1
Deferred income tax.....	1,251.4	896.3	1,994.3	2,941.7	2,004.6	1,877.0
Liabilities attributable to shutdown of facilities.....	2,131.2	2,296.1	NA	NA	NA	NA
All other other long-term liabilities & reserves.....	4,432.3	3,495.3	4,657.5	2,912.0	3,049.1	2,906.8
Minority interest in companies not wholly owned.....	64.0	57.8	267.6	469.8	482.3	466.2
Total Liabilities.....	34,438.2	32,480.8	34,084.8	28,479.2	26,955.4	24,985.4
Redeemable preferred stock (RPS).....	576.0	501.1	20.8	—	—	—
Stockholders' Equity.....	15,337.6	15,044.8	19,427.8	22,901.0	20,152.1	19,111.1
Total Liabilities RPS and Stockholders' Equity.....	\$50,351.8	\$48,026.7	\$53,513.4	\$51,380.2	\$47,107.5	\$44,096.5
Memo: LIFO inventory reserves included above.....	\$ 2,814.2	\$ 3,235.7	\$ 6,474.0	\$ 7,333.9	\$ 6,911.5	\$ 6,333.7

Table 3A
Balance Sheet
Steel Segment

(Millions of Dollars)

ASSETS	1984	1983	1982	1981	1980	1979
Current Assets:						
Cash and marketable securities.....	\$ 569.9	\$ 606.9	\$ 952.5	\$ 1,157.7	\$ 1,151.9	\$ 1,293.6
Receivables, less allowances.....	3,263.8	3,408.3	2,727.5	4,385.5	4,710.1	3,939.3
Inventories.....	4,222.4	3,320.7	4,034.4	5,379.4	4,693.6	5,039.6
Other Current Assets.....	172.9	204.7	226.5	193.7	263.3	161.0
Total Current Assets.....	8,229.0	7,540.6	7,940.9	11,116.3	10,818.9	10,433.5
Long-term receivables & other investments.....	1,076.0	1,700.0	NA	NA	NA	NA
Fixed Assets:						
Property, plant & equipment.....	35,611.5	34,283.2	38,518.5	38,971.2	37,716.9	36,000.5
Less—Depreciation, depletion & amortization.....	(18,736.2)	(18,401.8)	(20,681.5)	(20,768.4)	(19,976.2)	(19,163.4)
Net Fixed Assets.....	16,875.3	15,881.4	17,837.0	18,202.8	17,740.7	16,837.1
Other Assets.....	543.3	349.3	2,101.3	2,376.7	2,210.6	2,001.7
Total Assets.....	\$26,723.6	\$25,471.3	\$27,879.2	\$31,695.8	\$30,770.2	\$29,272.3
LIABILITIES AND STOCKHOLDERS' EQUITY						
Current Liabilities:						
Accounts Payable.....	\$ 2,319.8	\$ 2,287.6	\$ NA	\$ NA	\$ NA	\$ NA
Accrued taxes incl. Federal income taxes.....	469.7	385.5	NA	NA	NA	NA
Long-term debt maturing within one year.....	562.8	255.9	197.8	266.5	128.1	163.5
All other current liabilities.....	2,476.1	2,726.8	5,136.4	6,418.7	6,442.7	6,049.1
Total Current Liabilities.....	5,828.4	5,655.8	5,334.2	6,685.2	6,570.8	6,212.6
Long-term debt less amount maturing within one year.....	7,148.3	7,208.2	7,817.9	6,163.7	6,822.5	5,988.4
Deferred income tax.....	312.9	264.2	750.2	1,696.4	1,128.6	978.2
Liabilities attributable to shutdown of facilities.....	1,840.9	2,085.7	NA	NA	NA	NA
All other other long-term liabilities & reserves.....	2,393.8	1,809.8	2,697.3	1,759.0	1,759.5	1,749.2
Minority interest in companies not wholly owned.....	22.8	18.2	19.5	30.9	31.1	35.0
Total Liabilities.....	17,547.1	17,041.9	16,619.1	16,335.2	16,312.5	14,963.4
Redeemable preferred stock (RPS).....	230.5	228.3	—	—	—	—
Stockholders' Equity.....	8,946.0	8,201.1	11,260.1	15,360.6	14,457.7	14,308.9
Total Liabilities RPS and Stockholders' Equity.....	\$26,723.6	\$25,471.3	\$27,879.2	\$31,695.8	\$30,770.2	\$29,272.3
Memo: LIFO inventory reserves included above.....	\$ 2,164.0	\$ 2,750.6	\$ 5,101.7	\$ 6,067.1	\$ 5,800.8	\$ 5,115.0

Table 4
Cash Flow Statement
Total Corporation

(Millions of Dollars)

	1984	1983	1982	1981	1980	1979
Cash Provided From Operations						
Net Income	\$ (301.0)	\$ (2,652.9)	\$ (3,176.3)	\$ 3,242.1	\$ 1,610.1	\$ 1,360.2
Depreciation.....	2,514.8	2,344.7	2,572.0	2,197.2	2,042.5	1,944.1
Deferred Income Taxes.....	207.2	(581.7)	(882.1)	832.9	220.3	34.3
Unusual noncash P&L items.....	545.4	1,686.1	2,234.7	38.2	4.9	682.7
Total from earnings	2,966.4	796.2	748.3	6,310.4	3,877.8	4,021.3
Changes in working capital	(159.6)	148.0	1,383.2	(696.6)	50.2	(736.5)
Net cash (used) provided from operations.....	2,806.8	944.2	2,131.5	5,613.8	3,928.0	3,284.8
Cash provided (used) for non operating units	(91.2)	(313.3)	79.3	(172.1)	(96.6)	(54.2)
Cash (used) for Dividends	(467.2)	(470.9)	(660.2)	(727.0)	(678.9)	(656.5)
Long Term Investments						
Additions to plant and equipment	(2,431.9)	(3,137.4)	(4,324.9)	(3,506.3)	(3,665.0)	(3,822.7)
Disposals of plant and equipment	673.5	516.2	1,058.8	322.9	300.2	196.0
Other provided (used).....	(698.6)	918.9	7,023.0	(357.5)	(259.7)	(225.5)
Net cash provided (used) for long term investment	(2,457.0)	(1,702.3)	(10,289.1)	(3,540.9)	(3,624.5)	(3,852.2)
Cash provided (used) by operations	(208.6)	(1,542.3)	(8,738.5)	1,173.8	(472.0)	(1,278.1)
Cash Provided From (Used For) Financing						
Net Additions/Reduction In:						
Transfers (to) from corporate	—	—	—	—	—	—
Long term debt	(963.6)	332.1	5,635.0	(46.4)	539.6	722.5
Short term debt.....	747.1	(292.3)	229.2	331.9	(137.8)	142.3
Stock	294.1	1,139.6	435.6	149.0	176.1	130.1
Net cash Provided from (used for) financing.....	77.6	1,179.4	6,299.8	434.5	577.9	994.9
Increase (decrease) in cash and marketable securities.....	\$ (131.0)	\$ (362.9)	\$ (2,438.7)	\$ 1,608.3	\$ 105.9	\$ (283.2)

Table 4A
Cash Flow Statement
Steel Segment
(Millions of Dollars)

	1984	1983	1982	1981	1980	1979
Cash Provided From Operations						
Net Income	\$ (248.3)	\$ (2,235.0)	\$ (3,384.4)	\$ 1,653.8	\$ 681.4	\$ 806.6
Depreciation.....	1,388.9	1,292.1	1,481.2	1,636.1	1,547.2	1,502.7
Deferred Income Taxes.....	54.2	(722.9)	(854.4)	762.9	255.8	(144.6)
Unusual noncash P&L items.....	113.6	1,366.2	2,036.6	(39.8)	8.2	677.5
Total from earnings	1,308.4	(299.6)	(721.0)	4,013.0	2,492.6	2,842.2
Changes in working capital.....	(567.8)	(94.1)	1,677.3	(463.6)	50.0	(297.2)
Net cash (used) provided from operations.....	740.6	(393.7)	956.3	3,549.4	2,542.6	2,545.0
Cash provided (used) for non operating units.....	(143.5)	(160.6)	63.3	(161.2)	(83.6)	(45.1)
Cash (used) for Dividends.....	(215.3)	(203.3)	(413.8)	(774.9)	(714.6)	(521.3)
Long Term Investments						
Additions to plant and equipment.....	(1,188.9)	(1,850.2)	(2,258.2)	(2,370.6)	(2,650.6)	(2,469.4)
Disposals of plant and equipment.....	293.4	48.5	602.8	166.2	227.1	51.7
Other provided (used).....	97.6	701.0	(940.6)	279.6	(69.1)	2.7
Net cash provided (used) for long term investment.....	(797.9)	(1,100.7)	(2,596.0)	(1,924.8)	(2,492.6)	(2,415.0)
Cash provided (used) by operations.....	(416.1)	(1,858.3)	(1,990.2)	688.5	(748.2)	(436.4)
Cash Provided From (Used For) Financing						
Net Additions/Reduction In:						
Transfers (to) from corporate.....	(49.0)	46.5	(242.6)	(186.4)	(87.5)	94.5
Long term debt.....	(135.3)	524.1	1,814.7	(638.4)	805.8	244.1
Short term debt.....	283.4	51.3	106.7	121.3	(179.5)	51.8
Stock.....	273.5	934.1	87.2	11.5	63.3	19.1
Net cash Provided from (used for) financing.....	372.6	1,556.0	1,766.0	(692.0)	602.1	220.5
Increase (decrease) in cash and marketable securities.....	\$ (43.5)	\$ (302.3)	\$ (224.2)	\$ (3.5)	\$ (146.1)	(215.9)

Table 5
BLS—Consumer and Producer Price Indexes of Steel Prices (1967 = 100)

Source: United States Department of Labor, Bureau of Labor Statistics

Year	Iron and Steel							
	Consumer Price Index	Industrial Commodities	Steel Mill Products			Other Iron and Steel Products		
			Total	Finished	Semi- Finished	Pig Iron & Ferroalloys	Scrap Iron & Steel	Fdry. & Forgings
1960	88.7	95.3	96.4	96.3	97.1	120.4	110.2	92.4
1961	89.6	94.8	96.0	95.9	97.0	118.4	116.8	92.7
1962	90.6	94.8	95.8	95.7	97.0	113.9	95.2	92.8
1963	91.7	94.7	96.3	96.2	97.4	102.3	91.7	92.8
1964	92.9	95.2	97.1	97.0	98.6	97.1	109.4	93.8
1965	94.5	96.4	97.5	97.5	98.4	100.3	112.6	95.1
1966	97.2	98.5	98.9	98.8	98.8	100.3	106.6	96.8
1967	100	100	100	100	100	100	100	100
1968	104.2	102.5	102.5	102.5	102.3	100.9	93.0	103.0
1969	109.8	106.0	107.4	107.4	107.0	102.1	110.5	106.9
1970	116.3	110.0	114.3	114.3	112.2	114.6	138.9	112.6
1971	121.3	113.9	123.0	123.0	122.7	126.3	114.6	119.2
1972	125.3	117.9	130.4	130.4	130.9	125.4	121.8	124.3
1973	133.1	125.9	134.1	134.1	133.9	129.4	188.0	131.5
1974	147.7	153.8	170.0	170.0	169.0	188.1	353.2	161.4
1975	161.2	171.5	197.2	196.6	206.7	264.7	245.6	194.3
1976	170.5	182.4	209.8	209.0	223.1	261.6	259.0	218.6
1977	181.5	195.1	229.9	229.0	243.6	257.0	231.2	229.9
1978	195.3†	209.3	254.4	253.4	270.6	259.7	264.6	248.7
1979	217.7	236.1	280.4	279.5	294.3	296.5	341.9	275.8
1980	247.0	274.2	302.7	301.2	325.3	307.2	328.1	309.0
1981	272.3	303.6	337.6	336.2	359.3	315.1	327.4	329.3
1982	288.6	312.3	349.7††	348.4††	370.2	316.5	232.9	345.3
1983	297.4	315.9	352.5	351.3	370.6	309.4	250.1	350.8
1984	307.6	322.6	366.1	365.5	371.9	308.3	288.1	360.2
1984 Jan.	302.7	319.2	362.8	362.1	371.4	307.9	297.1	354.4
Feb.	303.3	320.4	363.5	363.1	365.2	309.3	313.5	357.1
Mar.	303.3	321.9	363.6	363.2	365.2	307.0	311.8	356.9
April	304.1	322.5	364.3	363.5	372.9	307.0	302.7	359.6
May	305.4	323.3	364.9	364.2	372.5	307.0	305.1	359.6
June	306.2	323.9	365.4	364.8	371.6	307.2	293.1	360.6
July	307.5	324.0	367.8	367.0	375.6	309.6	273.1	361.1
Aug.	310.3	323.5	368.0	367.4	374.1	309.1	266.6	362.0
Sept.	312.1	322.3	367.9	367.2	374.1	309.3	273.3	362.6
Oct.	312.2	323.2	368.9	368.4	373.8	310.0	279.2	363.3
Nov.	311.9	323.8	368.1	367.6	372.9	308.6	273.3	362.5
Dec.	312.2	323.0	368.0	367.4	373.0	308.0	268.8	363.1

†Urban wage earners and clerical workers starting 1978.

††Effective July 1982, this index excludes all fabricated wire products including nails and staples, barbed wire, fencing, etc.

EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, wages and salaries paid, payroll cost per hour and employment cost per hour as shown on tables 6 and 7 cover those employees engaged in the operation of coke ovens, blast furnaces, steelmaking furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 88% of total raw steel production.

Indexes on output per manhour in the Iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

Table 6
Total Employment Cost per Hour Worked—Wage Employees
(Covering those employees engaged in the production of iron and steel products)

Year	Pay for Hours Worked						Memo Average Hourly Earnings in Steel (BLS) (7)	Other Payroll Costs			Total Payroll Cost Per Hour (11)	Employee Benefits Cost Per Hour (12)	Total Employ- ment Cost Per Hour (13)	Year
	Straight Time				Premium For Work On Holidays (5)	Subtotal Pay For Hours Worked (6)		Pay for Holidays Not Worked (8)	Vacation Pay (9)	Allow- ances and Adjust- ments (10)				
	Regular (1)	Shift Diff- ential (2)	Sunday Premium (3)	Overtime Premium (4)										
1984	\$12.570	\$158	\$234	\$514	\$255	\$13.731	\$13.53	\$312	\$1.135	\$165	\$15.343	\$5.955	\$21.298	1984
1983	12.548	.156	.255	.409	.259	13.627	13.40	.366	.968	.133	15.094	7.119	22.213	1983
1982	13.012	.157	.375	.276	.235	14.055	13.96	.499	2.165	.089	16.808	6.973	23.781	1982
1981	12.092	.171	.434	.432	.298	13.427	13.11	.350	1.601	.071	15.449	4.709	20.158	1981
1980	10.971	.135	.377	.336	.295	12.114	11.84	.333	1.574	.156	14.177	4.274	18.451	1980
1979	9.822	.121	.368	.427	.281	11.019	10.77	.247	1.230	.055	12.551	3.370	15.921	1979
1978	8.890	.120	.333	.391	.242	9.976	9.70	.194	1.051	.049	11.270	3.033	14.303	1978
1977	8.029	.117	.280	.294	.193	8.913	8.67	.200	1.015	.123	10.251	2.785	13.036	1977
1976	7.247	.115	.249	.239	.148	7.998	7.86	.177	.912	.045	9.132	2.612	11.744	1976
1975	6.634	.080	.218	.171	.124	7.227	7.11	.170	.874	.040	8.311	2.279	10.590	1975
1974	5.921	.062	.212	.235	.120	6.550	6.38	.114	.653	.108	7.425	1.653	9.078	1974
1973	5.159	.062	.135	.218	.114	5.688	5.56	.092	.507	.024	6.311	1.370	7.681	1973
1972	4.813	.060	.087	.161	.100	5.221	5.15	.101	.528	.027	5.877	1.198	7.075	1972
1971	4.242	.060	.075	.126	.071	4.574	4.57	.090	.519	.032	5.215	1.046	6.261	1971
1970	3.926	.054	.071	.118	.067	4.236	4.22	.077	.431	.023	4.767	.910	5.677	1970
1969	3.776	.050	.072	.154	.068	4.120	4.09	.053	.370	.023	4.566	.809	5.375	1969
1968	3.553	.049	.067	.126	.065	3.860	3.82	.049	.376	.018	4.303	.729	5.032	1968
1967	3.398	.048	.063	.091	.056	3.656	3.62	.056	.349	.008	4.069	.689	4.758	1967
1966	3.353	.049	.065	.110	.059	3.636	3.58	.049	.324	.008	4.017	.616	4.633	1966
1965	3.261	.049	.064	.106	.056	3.536	3.46	.048	.343	.008	3.935	.540	4.475	1965
Incr. 1984 vs. 1965	\$9.309	\$109	\$170	\$408	\$199	\$10.195	\$10.07	\$264	\$792	\$157	\$11.408	\$5.415	\$16.823	Incr. 1984 vs. 1965
	285%	222%	266%	385%	355%	288%	291%	550%	231%	...	290%	1003%	376%	1965

Notes Pertaining to Table 6 by Column Numbers

(Notes refer to agreement between the coordinating companies and the United Steel Workers of America)

Column
No.

- (1) Includes nonincentive bonus where applicable and Cost of Living Adjustment. The job class rate as established effective February 1, 1984 includes a wage increase of \$.40, representing a partial restoration of the negotiated wage reduction of \$1.25 that took effect March 1, 1983. No Cost of Living Adjustments were paid in 1984.

Cost of Living Adjustment Per Hour Worked

	1975	1976	1977	1978	1979	1980	1981	1982	1983
Feb ...	\$.56	\$.19	\$.14	\$.39	\$.25	\$.44	\$.36	\$.32	\$.06
Mar ...	...	...	...	...	...	...	...	...	...
May ...	.64	.23	.13	.51	.47	*	.58	.37	...
Aug ...	...	...	.25	...	...	...	...	...	...
Nov ...	.10	.08	.32	.13	.23	.14	.25	.09	...

*Excludes \$.33 diverted to finance pension improvements for retirees.

- (3) Sunday premium reduced from 50% to 25% effective March 1, 1983.

- (9) Includes regular vacation and company liabilities for vacation time-off and/or pay in lieu of SVP. 1983 reflects the adjustment for elimination of SVP effective January 1, 1984.

- (10) Allowances include earnings protection plan payments, reporting allowance, allowance for participation in military and naval training programs, jury duty, witness pay, funeral leave, rate retention under consent decree and similar actions, severance pay and retroactive payments.

Table 6A

Standard Hourly Wage Rate Changes and Minimum
Wage Rates in the Iron and Steel Industry
(Per Agreement With the United Steelworkers of America)
1961-1984

Effective Date	Standard Hourly Wage Rate Changes Per Hour		Minimum Std. Hourly Wage Rate (Job Class 1 and 2)	
	Job Class 1 and 2	Increment/ Job Class	Avg. All Job Classes	
February 1, 1984	.400	...	.400	9.895
March 1, 1983	(1.250)*	...	(1.250)	9.495
August 1, 1982	.770	.010	.853	10.745
August 1, 1981	.990	.010	1.071	9.975
August 1, 1980	.260	...	.260	8.985
May 1, 1980	.690	.010	.770	8.725
August 1, 1979	.820	.003	.843	8.035
February 1, 1979	.100	...	.100	7.215
August 1, 1978	.800	.003	.823	7.115
February 1, 1978	.100	...	.100	6.315
August 1, 1977	.200	...	.200	6.215
May 1, 1977	.340	.004	.371	6.015
August 1, 1976	.480	.004	.511	5.875
August 1, 1975	.890	.003	.913	5.195
May 1, 1974	.670	.002	.685	4.305
August 1, 1973	.125	.004	.155	3.635
August 1, 1972	.125	.004	.154	3.510
August 1, 1971	.500	.005	.537	3.385
August 1, 1970	.120	.002	.135	2.885
August 1, 1969	.120	.003	.142	2.765
August 1, 1968	.200	.005	.236	2.645
August 1, 1967	.060	.002	.076	2.445
September 1, 1965	.100	.003	.121	2.385
October 1, 1961	.085	.001	.092	2.285

*See footnote (1) for explanation.

Note: As of February 1, 1984, the hourly wage rate varies from a minimum (Job Class 1 and 2) of \$9.895 to a maximum (Job Class 34) of \$14.599 with an increment of 14.7¢ per hour between job classes.

Table 7

Number of Employees, Hours Worked and Payroll Cost

(Covering those employees engaged in the production and sale of iron and steel products)

Year	Employees Receiving Wages					Employees Receiving Salaries			All Employees Receiving Wages and Salaries					Year
	Average Number of Employees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Total Wages * (000)	Average Payroll Cost Per Hour	Average Number of Employees †	Total Hours Worked (000)	Total Salaries * (000)	Average Number of Employees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Total Wages and Salaries * (000)	Average Payroll Cost Per Hour	
1984	170,694	339,228	38.0	\$5,204,800	\$15.343	65,308	134,838	\$2,332,178	236,002	474,067	38.4	\$7,536,978	\$15.899	1984
1983	168,852	324,997	36.9	4,905,512	15.094	73,893	149,814	2,476,654	242,745	474,811	37.5	7,382,166	15.547	1983
1982	198,477	345,093	33.3	5,800,380	16.808	90,960	180,535	3,034,476	289,437	525,628	34.8	8,834,856	16.808	1982
1981	286,219	543,324	36.4	8,394,034	15.449	104,695	209,373	3,494,624	390,914	752,697	36.9	11,888,658	15.795	1981
1980	291,483	544,220	35.7	7,715,679	14.177	107,346	213,575	3,218,442	398,829	757,795	36.3	10,934,121	14.429	1980
1979	341,931	669,045	37.5	8,397,211	12.551	111,250	225,033	3,085,197	453,181	894,078	37.8	11,482,408	12.843	1979
1978	339,155	669,720	37.9	7,547,510	11.270	110,042	222,462	2,778,779	449,197	892,182	38.1	10,326,289	11.574	1978
1977	337,396	645,853	36.7	6,620,557	10.251	114,992	230,051	2,622,822	452,388	875,904	37.1	9,243,379	10.553	1977
1976	339,021	645,743	36.4	5,897,181	9.132	115,107	231,038	2,434,283	454,128	876,786	36.9	8,331,464	9.502	1976
1975	339,945	621,691	35.1	5,166,768	8.311	117,217	233,214	2,279,525	457,162	854,905	35.9	7,446,293	8.710	1975
1974	393,212	771,977	37.7	5,732,017	7.425	119,183	241,150	2,170,827	512,395	1,013,127	37.9	7,902,844	7.800	1974
1973	392,851	787,955	38.5	4,972,953	6.311	115,763	235,000	1,837,475	508,614	1,022,955	38.6	6,810,428	6.658	1973
1972	364,074	709,894	37.3	4,172,287	5.877	114,294	230,408	1,677,013	478,368	940,302	37.6	5,849,300	6.221	1972
1971	366,982	690,431	36.1	3,600,764	5.215	120,287	241,070	1,582,178	487,269	931,501	36.7	5,182,942	5.564	1971
1970	403,115	771,886	36.7	3,679,658	4.767	128,081	257,852	1,554,077	531,196	1,029,738	37.2	5,233,735	5.082	1970
1969	415,301	835,154	38.6	3,813,449	4.566	128,718	263,821	1,517,511	544,019	1,098,975	38.7	5,330,960	4.851	1969
1968	420,684	829,837	37.7	3,570,606	4.303	130,873	265,280	1,443,005	551,557	1,095,117	38.0	5,013,611	4.578	1968
1967	424,153	818,486	37.0	3,330,529	4.069	130,990	265,231	1,355,014	555,143	1,083,717	37.4	4,685,543	4.324	1967
1966	446,712	889,190	38.2	3,571,600	4.017	128,835	263,312	1,322,503	575,547	1,152,502	38.4	4,894,103	4.247	1966
1965	458,539	901,984	37.7	3,549,102	3.935	125,312	256,224	1,247,956	583,851	1,158,208	38.0	4,797,058	4.142	1965

†Average of the monthly number of employees receiving pay after adjustment for turnover.

*Excludes other employment costs such as payroll taxes, supplemental unemployment benefits, pensions, insurance, workers compensation and thrift plans.

Memo: Net shipments (thousand net tons) for companies reporting employment data are as follows: 1984—62,158; 1983—57,139; 1982—51,825; 1981—78,190; 1980—76,095.

Table 8
Collective Bargaining Agreements With The United
Steelworkers of America

Year	Effective Date of New Agreement	Periods of General Steel Strikes	Length (Calendar Days)
1983	Mar. 1, 1983	...	...
1980	Aug. 1, 1980	...	...
1977	Aug. 1, 1977	...	...
1974	Aug. 1, 1974	...	...
1971	Aug. 1, 1971	...	...
1968	Aug. 1, 1968	...	...
1965	Sept. 1, 1965	...	...
1963	June 29, 1963	...	...
1962	Apr. 6, 1962	...	...
1960	Jan. 4, 1960	July 15—Nov. 7, 1959	116
1956	Aug. 3, 1956	July 1—Aug. 3	34
1955	June 30, 1955	July 1	A Few Hours
1954	July 1, 1954	...	...
1953	June 12, 1953	...	...
1952	July 26, 1952	{ Apr. 29—May 2 } { June 2—July 26 }	3 55
1950	Nov. 30, 1950	...	...
1949	Nov. 11, 1949	Oct. 1—Nov. 11	42
1948	July 16, 1948	...	...
1947	Apr. 22, 1947	...	...
1946	Feb. 15, 1946	Jan. 21—Feb. 17	28

NOTE: Some companies have agreements with starting dates other than those listed above.

Table 9
BLS Index of Output Per Man-hour in the Steel Industry
(All Employees)

Year	1977 = 100	Year	1977 = 100
1954	66.8	1971	91.9
1955	75.9	1972	97.3
1956	74.8	1973	106.6
1957	72.9	1974	106.5
1958	67.4	1975	93.3
1959	75.7	1976	99.0
1960	71.2	1977	100.0
1961	73.4	1978	108.3
1962	77.1	1979	106.9
1963	80.6	1980	102.9
1964	84.1	1981 ^R	112.0
1965	87.5	1982 ^R	90.9
1966	89.2	1983 ^R	116.1
1967	86.4	1984 ^P	128.4
1968	89.5		
1969	90.0	Average Annual Increase*	
1970	87.6	1954-1984	1.7
		1964-1984	1.5
		1974-1984	1.7

*Based on least squares method.

Source: United States Department of Labor, Bureau of Labor Statistics.

NOTE: Although the output per man-hour data relate output to one input—labor time—they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productivity of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations.

Table 10
Occupational Injury/Illness

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 82% of total raw steel production)

	1984	1983	1982	1981	1980
1. Aggregate number of man-hours (millions)	462	468	515	747	741
2. OSHA recordable injuries/illnesses:					
a. Fatalities	21	25	30	46	42
b. Lost workday cases	5,090	4,587	4,441	8,488	9,779
c. Other medical treatment cases	11,180	11,232	13,363	20,610	20,320
d. Total (2a through 2c)	16,291	15,844	17,834	29,144	30,141
3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked)	7.054	6.773	6.929	7.805	8.138
4. OSHA workdays lost (thousands)	145	126	141	238	246
5. Severity rate (days lost per 200,000 man-hours worked)	63	54	55	64	66

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.

Table 11
Wage Employees in the Iron and Steel Industry
Classified by Age and by Length of Service

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 79% of total raw steel production)

Years of Service	1984		1983		Years of Age	1984		1983	
	No. of Employees*	%	No. of Employees*	%		No. of Employees*	%	No. of Employees*	%
Under 5	5,319	3.2	18,573	7.9	Under 25	2,763	1.6	8,257	3.5
5 to 9	27,085	16.1	49,250	20.9	25 to 34	45,370	26.9	75,624	32.0
10 to 14	37,373	22.1	53,942	22.8	35 to 44	47,908	28.4	60,255	25.5
15 to 24	47,984	28.4	54,776	23.2	45 to 54	42,944	25.5	54,734	23.2
25 to 34	38,987	23.1	44,441	18.8	55 to 64	29,341	17.4	36,731	15.6
35 and over	11,992	7.1	15,169	6.4	65 and over	414	0.2	550	0.2
Total	168,740	100.0	236,151	100.0	Total	168,740	100.0	236,151	100.0
Average service	18.9		17.1		Average age	43.0		41.5	

*Employees at year end, including employees on layoff, disability, and leave of absence other than military. Excludes employees terminated or retired during the year.

SHIPMENTS—STEEL PRODUCTS

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

Table 12
Shipments of Steel Mill Products—1984
All Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Ship- ments
Ingots and steel castings	283,317	7,964	275,333	0.4
Blooms, slabs, billets	1,327,748	297,037	1,030,711	1.4
Skelp	56,741	45,645	11,096	—
Wire rods	3,272,523	182,487	3,090,036	4.2
Total Semi-Finished	4,940,329	533,153	4,407,176	6.0
Structural shapes (3" & over)	3,868,389	23	3,868,366	5.2
Steel piling	287,867	—	287,867	0.4
Plates	4,353,917	14,924	4,338,993	5.9
Total Shapes and Plates	8,510,173	14,947	8,495,226	11.5
Rails—Standard (over 60 lbs.)	932,637	—	932,637	1.3
—All other	31,869	—	31,869	—
Joint bars	7,436	—	7,436	—
Tie plates	123,639	—	123,639	0.2
Track spikes	51,424	—	51,424	0.1
Wheels (rolled and forged)	58,795	—	58,795	0.1
Axles	33,100	—	33,100	—
Total Rails and Accessories	1,238,900	—	1,238,900	1.7
Bars—Hot rolled	6,758,463	687,516	6,070,947	8.2
—Bar-Size light shapes	1,184,098	—	1,184,098	1.6
—Reinforcing	4,435,430	3,021	4,432,409	6.0
—Cold finished	1,484,177	87	1,484,090	2.0
Tool steel	61,549	620	60,929	0.1
Total Bars and Tool Steel	13,923,717	691,244	13,232,473	17.9

Table 12 (Continued)
Shipments of Steel Mill Products—1984
All Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Ship- ments
Pipe and tubing—Standard	766,491	23,338	743,153	1.0
—Oil country goods	1,454,843	48,446	1,406,397	1.9
—Line	776,108	649	775,459	1.0
—Mechanical	962,979	22,793	940,186	1.3
—Pressure	88,777	20	88,757	0.1
—Structural	270,344	225	270,119	0.4
—Stainless	52,248	560	51,688	0.1
Total Pipe and Tubing	4,371,790	96,031	4,275,759	5.8
Wire—Drawn	965,760	3,034	962,726	1.3
—Nails and staples	147,531	49	147,482	0.2
—Barbed and twisted	51,504	4	51,500	0.1
—Woven wire fence	25,804	—	25,804	—
—Bale ties and baling wire	34,830	—	34,830	0.1
Total Wire and Wire Products	1,225,429	3,087	1,222,342	1.7
Black plate	285,729	—	285,729	0.4
Tin plate	2,765,060	—	2,765,060	3.7
Tin free steel	944,810	—	944,810	1.3
Tin mill products—All other	66,135	—	66,135	0.1
Total Tin Mill Products	4,061,734	—	4,061,734	5.5
Sheets—Hot rolled	14,532,788	1,399,504	13,133,284	17.8
—Cold rolled	13,741,603	77,804	13,663,799	18.5
Sheets & strip—Galvanized—Hot dipped	6,104,179	4,638	6,099,541	8.3
—Electrolytic	659,389	551	658,838	0.9
—All other metallic coated	1,108,578	43	1,108,535	1.5
—Electrical	515,463	25,248	490,215	0.7
Strip—Hot rolled	779,704	129,630	650,074	0.9
—Cold rolled	1,013,149	11,516	1,001,633	1.3
Total Sheets and Strip	38,454,853	1,648,934	36,805,919	49.9
Total Shipments	76,726,925	2,987,396	73,739,529	100.0

Table 13
Shipments of Steel Mill Products—1984
By Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Ingot and steel castings.....	68,077	0.1	200,708	2.7	6,548	0.5	275,333	0.4
Blooms, slabs, billets.....	646,163	1.0	351,416	4.7	33,132	2.6	1,030,711	1.4
Skelp.....	11,096	—	—	—	—	—	11,096	—
Wire rods.....	3,003,160	4.6	34,952	0.5	51,924	4.2	3,090,036	4.2
Total Semi-Finished.....	3,728,496	5.7	587,076	7.9	91,604	7.3	4,407,176	6.0
Structural shapes (3" & over).....	3,370,247	5.2	498,119	—	—	—	3,868,366	5.2
Steel piling.....	262,549	0.4	25,318	—	—	—	287,867	0.4
Plates.....	3,108,867	4.8	1,114,261	—	115,865	9.3	4,338,993	5.9
Total Shapes and Plates.....	6,741,663	10.4	1,637,698	21.9	115,865	9.3	8,495,226	11.5
Rails:								
Standard (over 60 lbs.).....	861,267	1.3	71,370	1.0	—	—	932,637	1.3
All other.....	31,869	—	—	—	—	—	31,869	—
Joint bars.....	7,436	—	—	—	—	—	7,436	—
Tie plates.....	123,639	0.2	—	—	—	—	123,639	0.2
Track spikes.....	51,424	0.1	—	—	—	—	51,424	0.1
Wheels (rolled and forged).....	56,010	0.1	2,785	—	—	—	58,795	0.1
Axles.....	33,100	0.1	—	—	—	—	33,100	—
Total Rails and Accessories.....	1,164,745	1.8	74,155	1.0	—	—	1,238,900	1.7
Bars:								
Hot rolled.....	4,260,238	6.6	1,772,492	23.7	38,217	3.1	6,070,947	8.2
Bar-Sized light shapes.....	1,184,098	1.8	(Included in hot rolled bars)	—	—	—	1,184,098	1.6
Reinforcing.....	4,402,690	6.8	29,719	0.4	—	—	4,432,409	6.0
Cold finished.....	1,169,483	1.8	212,844	2.8	101,763	8.1	1,484,090	2.0
Tool steel.....	—	—	60,929	0.8	—	—	60,929	0.1
Total Bars and Tool Steel.....	11,016,509	17.0	2,075,984	27.7	139,980	11.2	13,232,473	17.9
Pipe and tubing:								
Standard.....	741,687	1.2	1,466	—	—	—	743,153	1.0
Oil country goods.....	1,187,604	1.8	218,793	2.9	—	—	1,406,397	1.9
Line.....	652,796	1.0	122,663	1.7	—	—	775,459	1.0
Mechanical.....	601,992	0.9	338,194	4.5	—	—	940,186	1.3
Pressure.....	69,285	0.1	19,472	0.3	—	—	88,757	0.1
Structural.....	269,587	0.4	532	—	—	—	270,119	0.4
Stainless.....	—	—	—	—	51,688	4.1	51,688	0.1
Total pipe and Tubing.....	3,522,951	5.4	701,120	9.4	51,688	4.1	4,275,759	5.8

Table 13 (continued)
Shipments of Steel Mill Products—1984
By Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Wire:								
Drawn.....	916,132	1.4	17,250	0.2	29,344	2.4	962,726	1.3
Nails and staples.....	147,482	0.2	—	—	—	—	147,482	0.2
Barbed and twisted.....	51,500	0.1	—	—	—	—	51,500	0.1
Woven wire fence.....	25,804	—	—	—	—	—	25,804	—
Bale ties and baling wire.....	34,830	0.1	—	—	—	—	34,830	0.1
Total Wire and Wire Products.....	1,175,748	1.8	17,250	0.2	29,344	2.4	1,222,342	1.7
Black plate.....	285,729	0.4	—	—	—	—	285,729	0.4
Tin plate.....	2,765,060	4.2	—	—	—	—	2,765,060	3.7
Tin free Steel.....	944,810	1.5	—	—	—	—	944,810	1.3
Tin mill products—All other.....	66,135	0.1	—	—	—	—	66,135	0.1
Total Tin Mill Products.....	4,061,734	6.2	—	—	—	—	4,061,734	5.5
Sheets:								
Hot rolled.....	11,874,611	18.3	1,225,021	16.4	33,652	2.7	13,133,284	17.8
Cold rolled.....	12,867,555	19.8	227,161	3.0	569,083	45.6	13,663,799	18.5
Sheets and strip:								
Galvanized:								
Hot dipped.....	5,779,886	8.9	319,655	4.3	—	—	6,099,541	8.3
Electrolytic.....	658,838	1.0	—	—	—	—	658,838	0.9
All other metallic coated.....	1,108,323	1.7	212	—	—	—	1,108,535	1.5
Electrical.....	46,792	0.1	443,423	5.9	—	—	490,215	0.7
Strip:								
Hot rolled.....	546,402	0.8	96,717	1.3	6,955	0.6	650,074	0.9
Cold rolled.....	714,701	1.1	76,852	1.0	210,080	16.8	1,001,633	1.3
Total Sheets and Strip.....	33,597,108	51.7	2,389,041	31.9	819,770	65.7	36,805,919	49.9
Total Net Shipments.....	65,008,954	100.0	7,482,324	100.0	1,248,251	100.0	73,739,529	100.0
Shipments to reporting companies.....	2,676,667	—	183,149	—	127,580	—	2,987,396	—
Total Gross Shipments.....	67,685,621	—	7,665,473	—	1,375,831	—	76,726,925	—

Table 14
Net Shipments of Steel Mill Products—All Grades
(Thousands of net tons)

Steel Products	1984		1983		1982		1981		1980	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingot and steel castings.....	275	0.4	238	0.4	246	0.4	461	0.5	445	0.6
Blooms, slabs and billets.....	1,031	1.4	760	1.1	1,035	1.7	2,185	2.5	2,185	2.6
Skelp.....	11	...	5	...	2	...	18	...	24	...
Wire rods.....	3,090	4.2	2,857	4.2	2,411	3.9	3,040	3.4	2,688	3.2
Structural shapes (3" & over).....	3,868	5.2	3,364	5.0	3,313	5.4	4,929	5.6	4,861	5.8
Steel piling.....	288	0.4	258	0.4	250	0.4	282	0.3	346	0.4
Plates.....	4,339	5.9	3,816	5.6	4,146	6.7	7,441	8.4	8,080	9.6
Rails—Standard (over 60 lbs.).....	933	1.3	611	0.9	498	0.8	907	1.0	1,085	1.3
—All other.....	32	...	23	...	19	...	48	0.1	53	0.1
Joint bars.....	7	...	6	...	8	...	10	...	17	...
Tie plates.....	124	0.2	116	0.2	98	0.2	213	0.3	205	0.2
Track spikes.....	51	0.1	55	0.1	51	0.1	81	0.1	85	0.1
Wheels (rolled and forged).....	59	0.1	52	0.1	72	0.1	110	0.1	159	0.2
Axles.....	33	...	21	...	36	0.1	100	0.1	193	0.2
Bars—Hot rolled.....	6,070	8.2	5,129	7.6	4,757	7.7	6,890	7.8	5,961	7.1
—Bar-Size light shapes.....	1,184	1.6	1,070	1.6	948	1.5	1,473	1.7	950	1.1
—Reinforcing.....	4,432	6.0	4,275	6.3	4,049	6.6	4,612	5.2	4,684	5.6
—Cold finished.....	1,484	2.0	1,179	1.7	1,015	1.7	1,631	1.8	1,585	1.9
Tool steel.....	61	0.1	46	0.1	44	0.1	67	0.1	79	0.1
Pipe and tubing—Standard.....	743	1.0	812	1.2	962	1.5	1,858	2.1	1,773	2.1
—Oil country goods.....	1,406	1.9	678	1.0	1,759	2.9	4,241	4.8	3,612	4.3
—Line.....	775	1.0	623	0.9	1,093	1.8	2,047	2.3	1,793	2.1
—Mechanical.....	940	1.3	748	1.1	762	1.2	1,348	1.5	1,159	1.4
—Pressure.....	89	0.1	88	0.1	108	0.2	154	0.2	149	0.2
—Structural.....	270	0.4	238	0.4	301	0.5	598	0.7	569	0.7
—Stainless.....	52	0.1	57	0.1	41	0.1	39	...	41	0.1
Wire—Drawn.....	963	1.3	1,010	1.5	1,003	1.6	1,440	1.6	1,392	1.7
—Nails and staples.....	147	0.2	163	0.2	123	0.2	150	0.2	173	0.2
—Barbed and twisted.....	52	0.1	98	0.1	65	0.1	81	0.1	70	0.1
—Woven wire fence.....	26	...	49	0.1	74	0.1	95	0.1	92	0.1
—Bale ties and baling wire.....	35	0.1	39	0.1	43	0.1	49	0.1	41	...

Table 14 (continued)
Net Shipments of Steel Mill Products—All Grades
(Thousands of net tons)

Steel Products	1984		1983		1982		1981		1980	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Black plate.....	286	0.4	352	0.5	319	0.5	421	0.5	504	0.6
Tin plate.....	2,765	3.7	2,925	4.4	3,018	4.9	3,490	3.9	4,166	5.0
Tin free Steel.....	945	1.3	962	1.4	918	1.5	948	1.1	978	1.1
Tin mill products—All other.....	66	0.1	69	0.1	66	0.1	68	0.1	61	0.1
Sheets—Hot rolled.....	13,133	17.8	11,619	17.2	9,052	14.7	13,451	15.2	12,116	14.5
—Cold rolled.....	13,664	18.5	13,781	20.4	11,132	18.1	14,396	16.3	13,313	15.9
Sheets and strip—Galvanized—Hot dipped.....	6,100	8.3	5,793	8.6	4,878	7.9	5,375	6.1	4,787	5.7
—Electrolytic.....	659	0.9	641	0.9	491	0.8	548	0.6	457	0.5
—All other metallic coated.....	1,109	1.5	946	1.4	694	1.1	836	0.9	722	0.9
—Electrical.....	490	0.7	458	0.7	445	0.7	599	0.7	601	0.7
Strip—Hot rolled.....	650	0.9	633	0.9	498	0.8	660	0.7	669	0.8
—Cold rolled.....	1,002	1.3	920	1.4	724	1.2	1,060	1.2	930	1.1
Total Steel Mill Products.....	73,739	100.0	67,583	100.0	61,567	100.0	88,450	100.0	83,853	100.0
Carbon.....	65,009	88.2	60,292	89.2	53,947	87.6	76,554	86.6	73,358	87.5
Stainless and heat resisting.....	1,248	1.7	1,137	1.7	894	1.5	1,163	1.3	1,127	1.3
Alloy (other than stainless).....	7,482	10.1	6,154	9.1	6,726	10.9	10,732	12.1	9,368	11.2
Total Steel Mill Product Shipment By Months*										
January.....	5,980		4,583		5,608		7,616		7,952	
February.....	6,150		4,588		5,434		7,375		7,690	
March.....	7,240		5,969		6,163		8,422		8,711	
April.....	6,472		5,399		5,488		8,108		7,296	
May.....	6,948		5,612		5,149		7,932		6,440	
June.....	6,686		5,986		5,372		8,148		5,848	
July.....	5,820		5,045		4,514		7,115		5,353	
August.....	6,033		5,789		4,724		7,020		5,745	
September.....	5,454		5,893		4,760		7,039		6,682	
October.....	6,087		6,078		4,309		6,723		7,458	
November.....	5,317		6,014		4,088		5,783		7,038	
December.....	4,867		6,269		4,234		5,666		7,591	
Total*.....	73,739		67,583		61,567		88,450		83,853	

*Totals include adjustments not shown in monthly figures.

Table 14 (continued)
Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1979		1978		1977		1976		1975	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingot and steel castings.....	504	0.5	516	0.5	423	0.5	488	0.6	559	0.7
Blooms, slabs and billets.....	2,095	2.1	1,969	2.0	1,736	1.9	1,967	2.2	2,020	2.5
Skelp.....	35	...	31	0.1	31	...	28	...	34	0.1
Wire rods.....	2,861	2.9	2,554	2.6	1,804	2.0	1,901	2.1	1,298	1.6
Structural shapes (3" & over).....	5,303	5.3	4,667	4.7	4,035	4.4	3,857	4.3	4,697	5.9
Steel piling.....	293	0.3	360	0.4	347	0.4	330	0.4	424	0.5
Plates.....	9,035	9.0	8,601	8.8	7,529	8.3	7,160	8.0	8,761	11.0
Rails—Standard (over 60 lbs.).....	1,122	1.1	946	1.0	1,109	1.2	1,303	1.5	1,179	1.5
—All other.....	48	0.1	38	...	37	0.1	37	...	70	0.1
Joint bars.....	19	...	14	...	17	...	19	...	29	...
Tie plates.....	337	0.3	255	0.2	264	0.3	250	0.3	222	0.3
Track spikes.....	101	0.1	97	0.1	103	0.1	105	0.1	88	0.1
Wheels (rolled and forged).....	180	0.2	165	0.2	189	0.2	175	0.2	216	0.2
Axles.....	218	0.2	188	0.2	144	0.2	128	0.2	161	0.2
Bars—Hot rolled.....	8,493	8.5	8,758	9.0	8,369	9.2	7,822	8.8	7,410	9.3
—Bar-Size light shapes.....	1,466	1.5	1,277	1.3	993	1.1	842	0.9	736	0.9
—Reinforcing.....	5,303	5.3	4,704	4.8	4,179	4.6	3,876	4.3	3,666	4.6
—Cold finished.....	2,245	2.2	2,084	2.1	1,794	1.9	1,618	1.8	1,486	1.8
Tool steel.....	95	0.1	92	0.1	85	0.1	76	0.1	69	0.1
Pipe and tubing—Standard.....	1,952	1.9	2,054	2.1	1,853	2.0	1,782	2.0	2,096	2.6
—Oil country goods.....	2,458	2.5	2,647	2.7	2,405	2.6	1,678	1.9	2,577	3.2
—Line.....	1,569	1.6	1,571	1.6	1,330	1.5	1,019	1.1	1,721	2.2
—Mechanical.....	1,507	1.5	1,480	1.5	1,362	1.5	1,260	1.4	1,202	1.5
—Pressure.....	170	0.2	184	0.2	218	0.2	197	0.2	332	0.4
—Structural.....	541	0.5	423	0.4	290	0.3	298	0.3	258	0.3
—Stainless.....	46	...	40	0.1	32	0.1	31	0.1	42	0.1
Wire—Drawn.....	1,918	1.9	1,968	2.0	1,894	2.1	1,921	2.1	1,625	2.0
—Nails and staples.....	257	0.2	289	0.3	278	0.3	281	0.3	265	0.3
—Barbed and twisted.....	67	0.1	58	0.1	55	...	71	0.1	81	0.1
—Woven wire fence.....	122	0.1	109	0.1	113	0.1	134	0.1	124	0.2
—Bale ties and baling wire.....	85	0.1	87	0.1	60	0.1	54	0.1	59	0.1

Table 14 (continued)
Net Shipments of Steel Mill Products—All Grades
(Thousands of net tons)

Steel Products	1979		1978		1977		1976		1975	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Black plate.....	629	0.6	623	0.6	636	0.7	614	0.7	486	0.6
Tin plate.....	4,604	4.6	4,489	4.6	4,700	5.1	4,784	5.3	4,151	5.2
Tin free Steel.....	1,003	1.0	918	0.9	974	1.1	967	1.1	1,000	1.2
Tin mill products—All other.....	75	0.1	70	0.1	72	0.1	71	0.1	50	0.1
Sheets—Hot rolled.....	15,995	16.0	15,447	15.8	14,558	16.0	15,090	16.9	11,222	14.1
—Cold rolled.....	17,284	17.2	17,821	18.2	17,684	19.4	18,265	20.4	12,841	16.1
Sheets and strip—Galvanized—Hot dipped.....	5,810	5.8	5,889	6.0	5,293	5.8	4,914	5.5	3,537	4.4
—Electrolytic.....	531	0.5	541	0.6	364	0.4	265	0.3	183	0.2
—All other metallic coated.....	975	1.0	997	1.0	923	1.0	844	0.9	555	0.7
—Electrical.....	697	0.7	639	0.6	597	0.6	577	0.7	563	0.7
Strip—Hot rolled.....	984	1.0	1,027	1.0	1,082	1.2	1,196	1.3	961	1.2
—Cold rolled.....	1,230	1.2	1,248	1.3	1,186	1.3	1,152	1.3	901	1.1
Total Steel Mill Products.....	100,262	100.0	97,935	100.0	91,147	100.0	89,447	100.0	79,957	100.0
Carbon.....	87,879	87.6	86,187	88.0	81,268	89.2	80,320	89.8	70,764	88.5
Stainless and heat resisting.....	1,361	1.4	1,191	1.2	1,118	1.2	1,019	1.1	757	0.9
Alloy (other than stainless).....	11,022	11.0	10,557	10.8	8,761	9.6	8,108	9.1	8,436	10.6
Total Steel Mill Product Shipment By Months*										
January.....	8,206		7,323		6,459		7,246		8,324	
February.....	7,996		7,539		6,690		6,840		6,978	
March.....	10,293		8,718		8,750		8,259		7,204	
April.....	7,438		8,055		7,981		7,780		6,955	
May.....	10,187		8,610		8,369		8,215		6,394	
June.....	8,977		8,787		8,811		8,537		6,178	
July.....	8,319		7,608		6,986		7,480		5,757	
August.....	8,475		8,293		7,737		7,519		6,327	
September.....	7,929		8,252		7,662		7,646		7,632	
October.....	8,355		8,599		7,400		6,996		6,377	
November.....	7,361		7,813		7,188		6,717		5,703	
December.....	6,743		8,196		7,020		6,334		6,071	
Total*.....	100,262		97,935		91,147		89,447		79,957	

*Totals include adjustments not shown in monthly figures.

Table 15
Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1984		1983		1982		1981		1980	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	5,136	7.0	4,403	6.5	3,222	5.2	5,058	5.7	4,117	4.9
Independent forgers (not elsewhere classified)	775	1.1	573	0.8	579	0.9	1,035	1.2	933	1.1
Industrial fasteners	455	0.6	440	0.7	404	0.7	648	0.7	590	0.7
Steel service centers & distributors	18,364	24.9	16,710	24.7	13,067	21.2	17,637	19.9	16,172	19.3
Construction, including maintenance	7,522	10.2	7,271	10.8	6,283	10.2	8,446	9.5	8,742	10.4
Contractors' products	2,631	3.6	2,703	4.0	2,287	3.7	3,230	3.7	3,148	3.8
Subtotal construction and contractors' products	10,153	13.8	9,974	14.8	8,570	13.9	11,676	13.2	11,890	14.2
Automotive:										
Vehicles, parts, etc.	12,571	17.1	12,052	17.8	9,111	14.8	12,808	14.5	11,855	14.2
Independent forgers	311	0.4	268	0.4	177	0.3	346	0.4	289	0.3
Total	12,882	17.5	12,320	18.2	9,288	15.1	13,154	14.9	12,124	14.5
Rail transportation:										
Freight cars, pass. cars & locomotives	347	0.4	217	0.3	382	0.6	976	1.1	1,884	2.3
Rails and all other	1,091	1.5	720	1.1	638	1.1	1,186	1.3	1,271	1.5
Total	1,438	1.9	937	1.4	1,020	1.7	2,162	2.5	3,155	3.8
Shipbuilding and marine equipment	471	0.6	471	0.7	399	0.6	1,101	1.2	1,201	1.4
Aircraft and aerospace	37	0.1	21	...	30	...	37	...	53	0.1
Oil and gas industry	2,003	2.7	1,296	1.9	2,745	4.5	6,238	7.1	5,371	6.4
Mining, quarrying and lumbering	298	0.4	262	0.4	254	0.4	493	0.6	454	0.5
Agricultural:										
Agricultural machinery	480	0.6	417	0.6	425	0.7	820	0.9	852	1.0
All other	193	0.3	282	0.4	519	0.8	409	0.5	388	0.5
Total	673	0.9	699	1.0	944	1.5	1,229	1.4	1,240	1.5
Machinery, industrial equipment & tools	2,886	3.9	2,484	3.7	2,584	4.2	4,624	5.2	4,543	5.4
Electrical equipment	2,365	3.2	2,337	3.5	2,003	3.3	2,600	2.9	2,441	2.9
Appliances, utensils and cutlery	1,635	2.2	1,618	2.4	1,337	2.2	1,775	2.0	1,725	2.1
Other domestic and commercial equipment	1,339	1.8	1,363	2.0	1,247	2.0	1,622	1.8	1,701	2.0
Containers, packaging and shipping materials:										
Cans and closures	3,268	4.4	3,443	5.1	3,480	5.7	3,786	4.3	4,163	5.0
Barrels, drums and shipping pails	507	0.7	535	0.8	536	0.9	744	0.8	725	0.9
All other	577	0.8	554	0.8	454	0.7	762	0.9	663	0.7
Total	4,352	5.9	4,532	6.7	4,470	7.3	5,292	6.0	5,551	6.6
Ordnance and other military	242	0.3	244	0.4	203	0.3	166	0.2	177	0.2
Export (reporting companies only)	428	0.6	544	0.8	832	1.4	1,845	2.1	2,595	3.1
Nonclassified shipments	7,807	10.6	8,355	9.4	8,369	13.6	10,058	11.4	7,820	9.3
Total Shipments	73,739	100.0	67,583	100.0	61,567	100.0	88,450	100.0	83,853	100.0

Table 15 (continued)
Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1979		1978		1977		1976		1975	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	5,058	5.0	4,612	4.7	3,679	4.0	4,036	4.5	3,255	4.1
Independent forgers (not elsewhere classified)	1,254	1.3	1,192	1.2	996	1.1	952	1.1	1,098	1.4
Industrial fasteners	934	0.9	870	0.9	848	0.9	912	1.0	675	0.8
Steel service centers & distributors	18,246	18.2	17,333	17.7	15,346	16.8	14,615	16.3	12,700	15.9
Construction, including maintenance	9,978	10.0	9,612	9.8	7,553	8.3	7,508	8.4	8,119	10.2
Contractors' products	3,745	3.7	3,480	3.6	4,500	4.9	4,502	5.0	3,927	4.9
Subtotal construction and contractors' products	13,723	13.7	13,092	13.4	12,053	13.2	12,010	13.4	12,046	15.1
Automotive:										
Vehicles, parts, etc.	18,099	18.0	20,651	21.1	20,882	22.9	20,667	23.1	14,750	18.4
Independent forgers	522	0.5	602	0.6	608	0.7	684	0.8	464	0.6
Total	18,621	18.5	21,253	21.7	21,490	23.6	21,351	23.9	15,214	19.0
Rail transportation:										
Freight cars, pass. cars & locomotives	2,445	2.4	2,188	2.2	1,709	1.9	1,469	1.6	1,836	2.3
Rails and all other	1,666	1.7	1,361	1.4	1,529	1.7	1,587	1.8	1,315	1.6
Total	4,111	4.1	3,549	3.6	3,238	3.6	3,056	3.4	3,152	3.9
Shipbuilding and marine equipment	924	0.9	845	0.9	869	1.0	969	1.1	1,413	1.8
Aircraft and aerospace	60	0.1	60	0.1	63	0.1	59	0.1	69	0.1
Oil and gas industry	3,739	3.7	4,140	4.3	3,650	4.0	2,653	3.0	4,171	5.2
Mining, quarrying and lumbering	569	0.6	508	0.5	486	0.5	536	0.6	596	0.7
Agricultural:										
Agricultural machinery	1,306	1.3	1,080	1.1	1,017	1.1	1,209	1.4	1,055	1.3
All other	665	0.7	725	0.7	631	0.7	575	0.6	374	0.5
Total	1,971	2.0	1,805	1.8	1,648	1.8	1,784	2.0	1,429	1.8
Machinery, industrial equipment & tools	5,996	6.0	5,992	6.1	5,566	6.1	5,180	5.8	5,173	6.5
Electrical equipment	2,819	2.8	2,811	2.9	2,639	2.9	2,671	3.0	2,173	2.7
Appliances, utensils and cutlery	2,140	2.1	2,094	2.1	2,129	2.3	1,950	2.2	1,653	2.1
Other domestic and commercial equipment	2,073	2.1	1,889	1.9	1,846	2.0	1,813	2.0	1,390	1.7
Containers, packaging and shipping materials:										
Cans and closures	4,994	4.9	4,950	4.9	5,173	5.7	5,301	5.9	4,859	6.0
Barrels, drums and shipping pails	939	1.0	809	0.9	768	0.8	859	1.0	601	0.8
All other	839	0.9	836	0.9	773	0.9	754	0.8	593	0.8
Total	6,772	6.8	6,595	6.7	6,714	7.4	6,914	7.7	6,053	7.6
Ordnance and other military	204	0.2	207	0.2	193	0.2	219	0.2	405	0.5
Export (reporting companies only)	2,007	2.0	1,224	1.3	1,076	1.2	1,839	2.1	1,755	2.2
Nonclassified shipments	9,041	9.0	7,864	8.0	6,616	7.3	5,928	6.6	5,537	6.9
Total Shipments	100,262	100.0	97,935	100.0	91,147	100.0	89,447	100.0	79,957	100.0

Table 16
Shipments of Steel Mill Products by Market Classification—1984
All Grades

(Net Tons)

Products	Steel for Converting and Processing			Independent Forgers (Not elsewhere classified)	Industrial Fasteners	Steel Service Centers and Distributors	Construction Including Maintenance	Contractors Products
	Total Shipments	Less Shipments to Reporting Companies	Net Shipments					
Ingots, blooms, billets, slabs.....	489,559	305,021	184,538	300,244	1,377	85,553	38,876	2,308
Skelp.....	56,741	45,645	11,096	...	...	...	...	...
Wire rods.....	1,603,200	182,487	1,420,713	72	146,075	111,756	416,367	40,165
Structural shapes (3" & over).....	63	23	40	...	...	651,840	1,924,332	2,804
Steel piling.....	...	...	...	...	...	36,032	246,791	...
Plates.....	116,752	14,924	101,828	1,070	6,862	1,546,412	832,388	48,384
Rails.....	...	...	...	...	...	68,068	9,095	...
Rail Accessories.....	...	...	...	2	...	11,906	921	...
Wheels (rolled and forged).....	...	...	...	...	...	510	771	...
Axles.....	...	...	...	...	...	...	116	...
Bars—Hot rolled (including light shapes).....	970,033	687,516	282,517	471,814	148,040	1,122,922	348,533	24,936
—Reinforcing.....	102,580	3,021	99,559	...	176	446,791	1,977,125	61,223
—Cold finished.....	8,988	87	8,901	1,647	11,509	377,832	1,711	10,258
Tool steel.....	620	620	...	...	...	...	...	...
Pipe and tubing—Standard.....	44,672	23,338	21,334	...	...	509,283	10,127	26,081
—Oil country goods.....	58,801	48,446	10,355	...	...	104,173	12,963	628
—Line.....	1,394	649	745	...	...	219,274	16,238	291
—Mechanical.....	28,726	22,793	5,933	...	476	211,474	6,553	15,344
—Pressure.....	33	20	13	...	...	36,505	1,235	125
—Structural.....	1,945	225	1,720	...	...	118,725	35,895	199
—Stainless.....	905	560	345	...	...	15,124	1,712	194
Wire—Drawn.....	121,845	3,034	118,811	1	51,508	97,094	120,194	49,059
—Nails and staples.....	91	49	42	...	...	60,795	25,471	...
—Other merchant wire products.....	...	4	-4	...	...	32,184	38	...
Black plate.....	16,139	...	16,139	...	...	50,923	6,662	35,448
Tin plate.....	23,411	...	23,411	...	...	233,071	28	719
Tin free steel.....	1,070	...	1,070	...	...	33,066	-24	389
Tin mill products—All other.....	11	...	11	...	...	20,495	22	534
Sheets—Hot rolled.....	3,439,712	1,399,504	2,040,208	...	12,405	5,892,364	491,407	406,691
—Cold rolled.....	706,198	77,804	628,394	...	1,871	3,967,214	59,070	720,179
Sheets and strip—Galvanized.....	91,792	5,189	86,603	...	43,316	1,916,127	659,623	1,069,624
—All other metallic coated.....	12,107	43	12,064	...	...	224,191	233,394	65,839
—Electrical.....	25,258	25,248	10	...	...	47,090	337	681
Strip—Hot rolled.....	147,584	129,630	17,954	39	19,676	22,457	39,508	8,127
—Cold rolled.....	53,004	11,516	41,488	...	11,850	92,967	4,577	40,658
Total—All Grades.....	8,123,234	2,987,396	5,135,838	774,889	455,141	18,364,218	7,522,056	2,630,888
%.....	...	...	7.0	1.1	0.6	24.9	10.2	3.6

Table 16 (continued)
Shipments of Steel Mill Products by Market Classification--1984
All Grades

39
SHIPMENTS
 By Market

(Net tons)

Products	Automotive	Rail Transportation	Ship-building and Marine Equipment	Aircraft and Aerospace	Oil and Gas Industry	Mining, Quarrying and Lumbering	Agricultural	Machinery, Industrial Equipment and Tools
Ingot, blooms, billets, slabs.....	129,332	823	38	13,169	26,852	1,025	16,755	92,599
Skelp.....	...	...	...	...	...	...	...	...
Wire rods.....	169,182	351	12	64	8,022	64	90,579	361,176
Structural shapes (3" & over).....	20,039	34,731	63,578	10	17,797	1,138	9,502	77,445
Steel piling.....	...	1,023	141	...	158	201	...	...
Plates.....	87,077	160,321	384,538	4,263	113,424	27,801	44,279	600,447
Rails.....	...	879,556	141	...	...	152	...	1,047
Rail Accessories.....	...	92,649	7	...	...	106	...	11
Wheels (rolled and forged).....	...	54,708	2	...	...	675	...	2,069
Axles.....	...	32,305	...	...	...	144	...	44
Bars—Hot rolled (including light shapes).....	1,540,458	113,338	8,522	11,526	155,656	195,196	119,655	508,171
—Reinforcing.....	...	14,007	...	...	13,337	26,888	455	5,769
—Cold finished.....	129,229	1,494	3,070	1,275	3,890	2,856	17,483	183,652
Tool steel.....	...	...	...	...	...	...	...	...
Pipe and tubing—Standard.....	330	418	22	...	60,981	664	1,263	3,481
—Oil country goods.....	...	...	...	...	1,056,241	...	...	...
—Line.....	...	...	...	...	442,321	...	...	3,696
—Mechanical.....	128,676	811	20	1,052	31,068	1,280	9,371	262,629
—Pressure.....	7	...	197	...	2,461	...	8,574	32,934
—Structural.....	1,439	217	509	...	53,260	...	7,442	3,630
—Stainless.....	734	...	223	293	749	...	2	8,763
Wire—Drawn.....	36,387	390	1,357	31	8,718	8,407	1,984	37,704
—Nails and staples.....	...	1	...	...	...	...	...	157
—Other merchant wire products.....	...	9	...	...	...	...	994	...
Black plate.....	7,621	...	...	...	...	...	...	3,092
Tin plate.....	63,996	...	...	...	...	...	98	2,346
Tin free steel.....	1,123	...	...	...	...	...	...	172
Tin mill products—All other.....	36,862	...	...	...	...	...	...	1,298
Sheets—Hot rolled.....	2,874,289	45,665	7,802	486	1,404	28,743	143,362	266,342
—Cold rolled.....	4,354,885	1,370	576	836	1,807	645	35,401	184,591
Sheets and strip—Galvanized.....	2,374,365	546	109	70	70	753	108,523	34,313
—All other metallic coated.....	430,863	41	...	...	...	59	6,592	14,471
—Electrical.....	2,433	1,525	21	...	1,652	...	12	19,833
Strip—Hot rolled.....	298,815	806	42	3,003	3,335	880	48,919	112,607
—Cold rolled.....	194,256	733	394	922	197	8	2,066	61,310
Total—All Grades.....	12,882,398	1,437,836	471,321	37,000	2,003,400	297,685	673,311	2,885,799
%.....	17.5	1.9	0.6	0.1	2.7	0.4	0.9	3.9

Table 16 (continued)
Shipments of Steel Mill Products by Market Classification—1984
All Grades

(Net tons)

Products	Electrical Equipment	Appliances, Utensils, and Cutlery	Other Domestic and Commercial Equipment	Containers, Packaging and Shipping Materials	Ordnance and Other Military	Export (Reporting Companies Only)	Non- classified Shipments	Total	%
Ingot, blooms, billets, slabs.....	211	...	...	15,687	75,902	6,979	313,776	1,306,044	1.8
Skelp.....	...	...	...	...	...	...	...	11,096	...
Wire rods.....	4,303	497	118,375	678	...	1,243	200,342	3,090,036	4.2
Structural shapes (3" & over).....	1,793	...	737	...	453	16,652	1,045,475	3,868,366	5.2
Steel piling.....	...	...	...	...	...	3,521	...	287,867	0.4
Plates.....	75,383	1,063	10,225	773	55,088	32,932	204,435	4,338,993	5.9
Rails.....	...	...	...	...	...	2,447	4,000	964,506	1.3
Rail Accessories.....	...	...	...	...	...	1,833	75,064	182,499	0.3
Wheels (rolled and forged).....	...	...	...	...	...	60	...	58,795	0.1
Axles.....	...	...	...	...	...	491	...	33,100	...
Bars—Hot rolled (including light shapes).....	42,813	12,169	44,290	14,474	35,089	37,451	2,017,475	7,255,045	9.8
—Reinforcing.....	...	...	...	...	...	17,164	1,769,915	4,432,409	6.0
—Cold finished.....	13,619	10,856	11,527	60	10,693	6,121	676,407	1,484,090	2.0
Tool steel.....	...	...	...	...	...	620	60,309	60,929	0.1
Pipe and tubing—Standard.....	49,606	583	2,883	235	2,168	10,140	43,554	743,153	1.0
—Oil country goods.....	...	...	...	...	...	11,711	210,326	1,406,397	1.9
—Line.....	...	...	48	192	...	3,112	89,542	775,459	1.0
—Mechanical.....	3,126	5,220	14,999	1,655	1,653	20,309	218,537	940,186	1.3
—Pressure.....	18	33	7	4,077	...	1,005	1,566	88,757	0.1
—Structural.....	3,913	...	87	698	...	5	42,380	270,119	0.4
—Stainless.....	134	34	125	18	3	703	22,532	51,688	0.1
Wire—Drawn.....	7,430	16,787	75,868	11,877	682	1,585	316,852	962,726	1.3
—Nails and staples.....	...	...	...	...	...	...	61,016	147,482	0.2
—Other merchant wire products.....	...	...	...	...	...	...	78,913	112,134	0.2
Black plate.....	6,313	6,528	25,805	117,866	...	9,312	20	285,729	0.4
Tin plate.....	12,854	17,616	16,355	2,327,221	...	67,274	71	2,765,060	3.7
Tin free steel.....	5,991	232	3,025	877,991	...	21,775	...	944,810	1.3
Tin mill products—all other.....	246	2,505	1,585	1,465	164	948	...	66,135	0.1
Sheets—Hot rolled.....	419,731	80,993	168,025	218,354	16,308	15,505	3,200	13,133,284	17.8
—Cold rolled.....	1,184,048	1,176,448	703,609	595,523	13,966	32,268	1,098	13,663,799	18.5
Sheets and strip—Galvanized.....	99,275	227,036	87,827	23,968	484	15,538	10,209	6,758,379	9.2
—All other metallic coated.....	3,798	24,641	11,120	5,029	...	39,691	36,742	1,108,535	1.5
—Electrical.....	390,689	1,831	2,009	...	...	21,782	310	490,215	0.7
Strip—Hot rolled.....	19,215	4,180	10,781	7,683	1,840	5,793	24,414	650,074	0.9
—Cold rolled.....	20,502	45,603	29,500	126,384	27,492	22,324	278,402	1,001,633	1.3
Total—All Grades.....	2,365,011	1,634,855	1,338,812	4,351,908	241,985	428,294	7,806,882	73,739,529	100.0
%.....	3.2	2.2	1.8	5.9	0.3	0.6	10.6	100.0	...

EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1980-1984. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

Table 17
Exports of Iron and Steel Products

(Net tons)

Products	1984 ^P	1983	1982	1981	1980
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.....	73,536	102,754	362,293	540,598	912,309
Wire rods.....	8,646	6,137	24,961	101,774	212,347
Structural shapes (3" & over).....	29,048	47,019	56,398	131,379	151,077
Sheet piling.....	3,355	2,097	5,620	7,609	2,677
Plates.....	88,184	101,982	121,930	199,534	207,840
Rails—Standard.....	3,126	4,333	12,637	56,008	49,046
—Other.....	8,015	4,864	16,286	13,307	71,346
Rail joints and tie plates.....	4,084	9,297	7,563	9,011	9,620
Wheels and axles.....	3,853	1,557	2,706	7,386	4,517
Bars—Hot rolled.....	82,972	89,677	79,385	154,716	211,624
Bars shapes under 3".....	11,231	21,796	9,576	16,174	25,237
Concrete reinforcing bars.....	9,889	34,524	114,739	137,318	166,168
Cold finished bars.....	27,177	20,487	16,502	25,389	27,647
Tool steel.....	2,326	3,568	2,406	3,866	3,392
Line Pipe.....	17,921	24,551	48,003	47,822	41,294
Standard pipe.....	23,229	50,068	73,100	118,636	118,163
Oil country goods.....	53,067	60,835	153,459	127,587	133,610
Tubing—Pressure.....	5,311	10,582	20,576	23,743	29,608
—Mechanical.....	45,177	41,485	34,273	44,263	42,241
—Structural.....	6,628	5,646	3,825	4,865	4,444
Stainless pipe & tubing.....	7,648		(incl. in applicable products)		
Other pipe and tubing.....	48,445	64,785	97,390	105,523	100,790
Wire—Drawn.....	19,441	18,739	22,863	34,805	36,552
—Barbed, Iron or Steel.....	1,368	1,601	3,399	2,549	6,091
—Nails and staples.....	7,161	6,919	7,091	11,948	11,596
Black plate.....	38,782	60,925	71,890	89,720	179,458
Tin plate.....	121,472	170,060	226,471	364,001	692,100
Tin free.....	1,766		(incl. in galv. & coated sheets & strip)		
Sheets—Hot rolled.....	51,581	42,543	62,188	195,292	211,291
—Cold rolled.....	38,734	39,990	38,352	75,768	129,341
Sheets & strip—Galv.....	31,741	96,712	81,052	148,352	208,057
—Coated.....	55,287				
—Electrical.....	12,922	10,674	13,229	17,707	18,563
Strip—Hot rolled.....	11,563	16,430	27,491	36,602	40,760
—Cold rolled.....	25,729	25,920	24,613	50,544	41,877
Total Steel Mill Products.....	980,414	1,198,577	1,842,267	2,903,793	4,100,683
Carbon.....	704,290	842,044	1,250,980	2,190,483	3,060,413
Alloy.....	235,235	307,097	538,717	628,432	907,906
Stainless.....	40,888	49,436	52,590	84,878	132,364

Table 17 (continued)
Exports of Iron and Steel Products

(Net tons)

Products	1984 ^P	1983	1982	1981	1980
Other Steel Products:					
Plates—Fabricated.....	3,573	5,621	6,849	10,473	10,282
Structural shapes—Fabricated.....	86,853	65,801	119,300	172,392	175,038
Sashes and frames	8,986	9,198	10,136	12,803	12,471
Rails-used	58,212	34,028	52,796	56,777	85,592
Railway track material	2,550	3,214	6,606	4,461	4,502
Bolts, nuts.....	86,897	72,908	70,594	70,253	56,123
Architectural & ornamental work, nec.	2,207	3,642	5,574	10,188	10,405
Wire cable, rope, strand & cordage.....	6,478	10,329	13,733	20,511	17,222
Fabricated wire products.....	7,100	10,093	11,301	12,653	11,750
Wire springs.....	17,246	14,564	13,675	15,778	13,799
Welded wire mesh.....	3,079	5,102	7,890	7,143	14,691
Sheets—Fabricated.....	7,798	16,370	16,361	29,763	18,477
Cast steel rolls.....	1,438	977	3,205	5,073	4,263
Forgings.....	41,739	33,048	46,139	58,192	47,416
Chains and parts	7,760	6,380	11,918	11,865	11,405
Pipe & tube fittings.....	36,182	47,796	57,612	70,161	68,109
Total Other Steel Products	378,098	339,067	453,689	568,486	561,545
Total Steel Products	1,358,512	1,537,844	2,295,956	3,472,279	4,662,228
Iron Products and Ferroalloys:					
Cast iron pressure pipe.....	12,611	18,447	50,967	60,492	28,020
Cast iron soil pipe	21,775	40,819	37,962	6,587	20,234
Cast iron fittings not malleable.....	10,857	18,042	15,283	18,413	25,821
Cast iron fittings malleable	4,273	4,562	7,589	7,843	8,768
Iron castings.....	122,374	58,345	69,545	113,518	134,717
Pig iron.....	56,674	6,364	54,333	16,274	72,923
Sponge iron, iron or steel powders	14,791	14,243	13,939	18,212	26,167
Ferroalloys	124,724	66,272	42,411	61,107	128,460
Total Iron Products & Ferroalloys	368,081	227,094	292,029	302,446	445,110
Grand Total	1,726,592	1,764,738	2,587,985	3,774,725	5,107,338
Iron and steel scrap.....	9,498,276	7,519,924	6,803,764	6,415,379	11,168,014

Table 18
Exports of Iron and Steel Products

(Net tons)

Products	1984 ^P	1983	1982	1981	1980	1979	1978	1977	1976	1975
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	73,536	102,754	362,293	540,598	912,309	357,965	231,098	248,422	261,647	324,942
Wire rods	8,646	6,137	24,961	101,774	212,347	26,903	38,863	83,934	100,033	40,617
Structural shapes and pilings	32,403	49,116	62,018	138,988	153,754	145,884	127,275	98,202	99,710	186,118
Plates	88,184	101,982	121,930	199,534	207,840	207,860	172,068	60,660	76,627	233,499
Rails and accessories	19,078	20,071	39,192	85,712	134,529	40,646	76,590	89,998	167,193	198,948
Bars and tool steel	133,595	170,052	222,608	337,463	434,068	260,244	282,309	229,991	282,587	264,021
Pipe and tubing	207,426	257,952	430,626	472,436	470,150	728,415	561,998	407,209	493,685	1,013,764
Wire and wire products	27,968	27,259	33,353	49,302	54,239	45,142	62,411	64,320	67,405	49,782
Tin mill products	162,020	249,556	312,017	470,810	886,482	565,953	453,463	374,500	412,989	271,721
Sheets and strip	227,557	213,698	233,269	507,176	634,965	438,923	415,613	345,865	692,130	369,712
Total Steel Mill Products	980,414	1,198,577	1,842,267	2,903,793	4,100,683	2,817,935	2,421,688	2,003,101	2,654,006	2,953,124
Other Steel Products	378,098	339,067	453,669	568,436	561,545	503,699	512,619	575,581	603,719	618,152
Total Steel Products	1,358,512	1,537,644	2,295,956	3,472,229	4,662,228	3,321,634	2,934,307	2,578,682	3,257,725	3,571,276
Iron Products and Ferroalloys	368,081	227,094	292,029	302,446	445,110	440,684	564,977	639,318	607,091	576,074
Grand Total	1,726,592	1,764,738	2,587,985	3,774,725	5,107,338	3,762,318	3,499,284	3,218,000	3,864,816	4,146,350

Table 19
Exports of Steel Mill Products

(Net tons)

Months	1984 ^P	1983	1982	1981	1980	1979	1978	1977	1976	1975
January	86,253	94,513	173,403	255,736	197,768	192,619	160,338	162,280	150,444	288,760
February	73,074	92,122	153,543	212,903	295,675	164,693	207,583	204,787	177,031	257,148
March	79,994	88,940	197,296	260,094	276,266	216,844	191,463	201,535	211,534	282,109
April	72,687	105,754	147,572	291,048	321,393	226,446	204,708	232,818	228,524	269,788
May	90,031	100,931	194,314	259,418	337,821	236,756	255,466	178,011	264,744	268,019
June	85,895	100,182	180,094	279,433	417,941	255,187	270,996	151,195	231,947	255,744
July	89,790	108,250	145,546	217,564	398,417	233,706	174,335	135,753	318,432	263,851
August	94,076	100,123	152,434	194,438	448,915	249,507	208,456	142,849	280,176	270,695
September	76,358	99,000	158,258	228,080	400,518	244,488	174,305	170,806	193,296	202,239
October	88,558	109,868	133,356	233,084	366,179	281,453	217,741	125,386	183,082	228,181
November	61,026	114,210	105,988	244,423	315,875	226,700	194,487	148,396	186,043	184,907
December	82,645	84,459	97,370	227,490	323,827	289,312	248,453	149,161	228,276	181,659
Total*	980,414	1,198,577	1,842,267	2,903,793	4,100,683	2,817,935	2,421,688	2,003,101	2,654,006	2,953,124

*Totals include adjustments not shown in monthly figures.

Table 20
Exports of Iron and Steel Products by Countries of Destination—1984
(Net tons)

Products	Grand Total	Canada	LATIN AMERICA						Total Latin Am.
			Guatemala	Mexico	Colombia	Venezuela	Brazil	Argentina	
Steel Mill Products									
Ingot, bloom, billets, slabs, etc.	73,539	9,038	11,772	11,606	2,649	3	—	11	28,504
Wire rods	8,646	3,629	4	1,384	26	929	10	3	2,960
Structural shapes (3" and over)	29,048	18,259	18	1,442	24	383	—	684	5,779
Sheet piling	3,355	41	—	42	—	—	—	23	395
Plates	88,184	32,825	189	7,072	141	945	255	50	13,345
Rails—Standard	3,128	149	3	831	2	953	—	—	2,672
—Iron or steel (NEC)	8,015	529	—	6,678	12	2	—	—	7,217
Rail joints and tie plates	4,084	2,186	13	1,441	—	11	—	—	1,723
Wheels and axles	3,653	428	2	474	12	65	37	98	1,155
Bars—Hot rolled	82,972	58,802	1,426	10,013	405	50	20	7	13,422
Bar shapes under 3"	11,231	1,819	3	818	1	1	1	—	3,075
Concrete reinforcing bars	8,889	1,257	—	378	411	9	—	—	5,164
Cold finished bars	27,177	11,961	63	1,094	296	32	20	43	3,197
Tool steel	2,328	709	2	164	409	—	64	1	838
Standard pipe	23,229	6,977	88	1,834	1,336	158	7	27	7,227
Oil country goods	53,067	11,566	120	2,416	4,127	533	582	201	13,405
Line pipe	17,921	980	62	5,321	2,519	478	12	—	9,587
Mechanical tubing	45,177	33,673	1	7,015	260	—	—	53	7,483
Pressure tubing	5,311	3,168	16	248	45	70	—	157	850
Stainless pipe and tubing	7,648	1,007	55	271	484	65	15	35	1,170
Pipe and tubing nonclassified	48,445	9,098	99	15,976	531	502	31	49	20,233
Structural pipe and tubing	6,628	264	3	340	52	20	—	—	817
Wire drawn	19,441	8,515	154	4,120	13	99	796	21	6,860
Wire—Nails and staples	7,161	2,783	52	388	66	51	19	—	1,777
—Barbed, iron or steel	1,368	114	2	46	—	9	—	—	222
Black plate	36,762	3,009	6	526	1,169	—	—	193	2,556
Tin plate	121,472	2,740	1,158	19,585	55	227	—	1,033	30,341
Tin free steel	1,763	74	10	425	1	—	—	—	583
Sheets—Hot rolled	51,581	30,017	40	9,165	108	386	2	12	11,433
—Cold rolled	38,734	17,430	149	3,964	55	148	26	402	5,405
Sheets & strip galvanized	31,741	9,981	775	8,370	2	7	104	—	11,852
Coated sheets	55,287	38,858	181	3,152	5	26	37	66	5,854
Electrical sheets & strip	12,922	1,128	—	7,432	7	1,068	202	298	9,065
Strip—Hot rolled	11,583	4,790	63	2,685	1,009	47	—	5	4,173
—Cold rolled	25,729	17,065	15	1,199	1,514	673	137	75	4,150
Total Steel Mill Products	980,414	344,868	16,545	137,316	17,743	7,849	2,378	3,549	244,091
Carbon	704,290	244,150	5,632	91,815	11,582	3,411	1,509	2,399	158,941
Alloy	235,235	86,747	10,781	40,958	5,336	3,542	537	697	75,259
Stainless	40,888	13,971	132	5,144	826	996	332	453	9,891

Country detail may not add to regional total because of omissions of some countries.

Table 20 (continued)
Exports of Iron and Steel Products by Countries of Destination—1984
(Net tons)

Products	EUROPE									
	EUROPEAN ECONOMIC COMMUNITY									
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed. Rep. Germany	Italy	Total E.E.C.*	Sweden	Spain	Total Europe
Steel Mill Products										
Ingot, bloom, billets, slabs, etc.	181	4	121	8,578	91	22,098	32,252	6	15	32,325
Wire rods	54	—	105	97	476	2	740	—	1	747
Structural shapes (3" and over)	86	74	29	2	41	—	308	92	31	435
Sheet piling	—	—	—	—	—	—	—	—	—	—
Plates	4,100	149	141	11	5,997	172	10,593	4	27	10,729
Rails—Standard	50	—	—	92	—	—	142	—	—	233
—Iron or steel (NEC)	21	—	2	—	—	44	66	—	—	86
Rail joints and tie plates	—	—	—	—	4	—	4	1	1	8
Wheels and axles	8	1	—	163	3	4	179	—	—	188
Bars—Hot rolled	282	27	96	111	31	30	681	2,391	29	3,347
Bar shapes under 3"	26	41	129	8	8	102	334	2	443	832
Concrete reinforcing bars	37	—	—	—	1	—	45	—	—	407
Cold finished bars	245	126	3,256	5,651	91	69	9,444	75	155	10,341
Tool steel	22	15	9	27	31	5	133	2	—	149
Standard pipe	918	15	130	3	30	1	1,116	1,146	188	2,483
Oil country goods	2,245	1,437	15	8	657	135	5,094	11	108	6,085
Line pipe	378	—	—	—	2	14	395	—	—	1,752
Mechanical tubing	564	84	—	29	38	8	724	—	12	783
Pressure tubing	92	4	—	29	12	—	153	—	4	227
Stainless pipe & tubing	38	6	5	32	25	57	185	19	5	198
Pipe and tubing nonclassified	1,562	240	43	156	185	153	2,356	68	27	2,556
Structural pipe and tubing	252	—	12	1	—	29	294	—	—	295
Wire drawn	172	66	125	177	250	179	1,228	16	105	1,814
Wire—Nails and staples	295	175	44	113	144	18	788	50	6	935
—Barbed, iron or steel	191	17	—	71	41	60	379	—	3	389
Black plate	7	18	2	17	59	399	492	—	43	535
Tin plate	366	94	1	—	38	18,299	18,800	2	—	19,772
Tin free steel	—	—	—	—	94	194	288	—	—	300
Sheets—Hot rolled	109	14	111	11	88	6	341	299	1	809
—Cold rolled	247	57	39	121	539	340	1,347	163	61	1,639
Sheets & strip galvanized	12	13	5	26	3	27	88	—	34	158
Coated sheets	140	182	143	142	305	1,324	2,230	39	22	2,373
Electrical sheets & strip	4	—	—	11	112	8	135	—	29	259
Strip—Hot rolled	311	15	48	20	148	187	751	44	67	925
—Cold rolled	498	15	5	90	656	450	1,743	21	61	2,179
Total Steel Mill Products	13,488	2,868	4,621	16,797	10,108	44,403	93,808	4,457	1,480	106,027
Carbon	8,790	2,421	4,017	983	8,292	34,008	59,463	3,723	805	67,990
Alloy	3,947	332	372	15,662	1,275	10,121	32,118	554	862	35,258
Stainless	752	115	231	172	629	274	2,226	180	13	2,789

*Includes totals for Ireland, Denmark & Greece.

Table 20 (continued)
Exports of Iron and Steel Products by Countries of Destination—1984
(Net tons)

Products	ASIA					OCEANIA		AFRICA	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Republic of South Africa	Total Africa
Steel Mill Products									
Ingots, bloom, billets, slabs, etc.	—	58	86	60	3,600	14	21	3	48
Wire rods	159	59	387	287	1,118	3	70	6	122
Structural shapes (3" and over)	—	258	53	514	2,951	36	45	17	1,580
Sheet piling	—	—	—	1	3	2	2	—	2,814
Plates	103	19,391	726	339	30,211	204	425	66	650
Rails—Standard	—	7	53	—	72	—	—	—	—
—Iron or steel (NEC)	—	—	4	—	100	—	—	—	103
Rail joints and tie plates	—	2	7	4	92	9	9	1	89
Wheels and axles	99	6	2	74	238	2	4	4	1,843
Bars—Hot rolled	5	243	351	82	5,827	55	124	164	1,449
Bar shapes under 3"	—	251	37	125	1,857	142	142	81	3,505
Concrete reinforcing bars	—	15	—	2	353	—	84	—	2,823
Cold finished bars	1	299	148	108	1,231	55	133	88	314
Tool steel	3	43	77	3	453	9	17	145	162
Standard pipe	—	1,089	10	195	4,493	270	306	9	1,782
Oil country goods	407	139	126	62	9,523	244	284	46	12,205
Line pipe	—	77	—	1	1,547	116	122	14	3,932
Mechanical tubing	—	32	—	36	314	2,540	2,542	380	402
Pressure tubing	—	37	56	4	728	—	16	1	530
Stainless pipe and tubing	—	472	4	193	3,503	3	15	3	1,755
Pipe and tubing nonclassified	216	357	520	132	12,940	305	502	212	3,115
Structural pipe and tubing	—	31	—	6	277	8	33	—	4,941
Wire drawn	15	120	359	388	2,077	172	207	153	168
Wire—Nails and staples	2	27	37	84	704	264	401	509	581
—Barbed, iron or steel	—	3	14	7	558	13	18	13	85
Black plate	—	—	2,543	1,433	32,820	63	63	—	—
Tin plate	2,429	6	8,023	91	51,395	36	55	4	17,188
Tin free steel	217	—	—	2	255	1	4	—	551
Sheets—Hot rolled	1	223	346	966	9,113	108	184	14	45
—Cold rolled	—	225	3,199	457	14,136	54	58	3	84
Sheets & strip galvanized	—	—	370	26	8,956	80	96	—	900
Coated sheets	297	300	966	152	7,221	183	217	36	786
Electrical sheets & strip	—	183	1,312	275	2,430	6	6	31	35
Strip—Hot rolled	—	55	443	690	1,486	71	119	60	89
—Cold rolled	—	12	63	99	856	194	236	58	1,243
Total Steel Mill Products	9,955	24,020	20,323	6,893	213,238	5,267	6,541	2,101	65,649
Carbon	3,338	21,941	14,480	3,783	175,036	1,570	2,199	1,296	55,965
Alloy	607	1,446	4,081	2,292	26,387	3,386	3,958	643	7,616
Stainless	11	633	1,762	818	11,804	311	384	162	2,089

Table 20A
Exports of Iron and Steel Products by Countries of Destination—1984
(Net tons)

Products	Grand Total	Canada	LATIN AMERICA						Total Latin Am.
			Guatemala	Mexico	Colombia	Venezuela	Brazil	Argentina	
Other Steel Products									
Plates—Fabricated	3,573	2,066	1	162	97	2	24	7	615
Structural shapes—Fabricated	86,853	9,321	224	4,012	974	937	57	210	23,110
Bushes and frames	8,986	1,759	—	928	53	5	—	15	1,710
Rails—Used	58,212	478	—	57,255	—	—	—	—	57,893
Railway Track Material	2,560	392	—	1,182	51	96	—	—	1,580
Boils, nuts	86,887	75,939	101	2,427	79	33	16	5	4,065
Architectural and ornamental work, NEC	2,207	294	1	17	1	6	—	—	229
Wire strand, rope, cables and cordage	6,478	1,770	15	727	76	208	90	153	2,421
Fabricated wire products	7,190	2,872	15	1,144	91	44	4	2	1,915
Wire springs	17,248	15,081	—	1,356	9	3	28	8	1,552
Welded wire mesh	3,079	507	4	457	—	16	—	—	1,181
Sheets—Fabricated	7,798	2,241	54	224	17	55	—	—	1,858
Cast steel rolls	1,438	910	—	4	—	24	26	—	55
Forgings	41,739	17,914	—	130	5	1,162	2	10	3,885
Chains and Parts	7,780	4,360	41	454	11	43	—	4	1,402
Pipe and tube fittings	36,182	13,396	42	2,899	183	301	14	102	5,896
Total Other Steel Products	378,086	149,299	499	73,378	1,648	2,995	280	517	108,890
Total Steel Products	1,358,512	494,167	17,044	211,296	18,391	10,944	2,638	4,086	352,967
Iron Products and Ferroalloys									
Cast iron pressure pipe	12,611	2,768	558	677	12	142	—	—	1,834
Cast iron soil pipe	21,775	224	—	274	18	67	—	1	4,785
Cast iron fittings not malleable	10,857	1,233	14	247	12	225	1	—	1,422
Cast iron fittings malleable	4,273	2,391	3	200	34	126	—	—	616
Iron castings	122,374	120,396	12	419	—	24	34	19	672
Pig iron	58,674	7,462	—	1,172	—	—	—	22	1,367
Sponge iron, iron or steel powders	14,791	7,685	—	1,481	73	347	1,785	1,035	5,068
Ferroalloys	124,724	34,375	—	6,433	78	323	167	430	10,329
Total Iron Products and Ferroalloys	368,081	178,534	587	10,963	228	1,254	1,986	1,507	26,082
Grand Total	1,726,592	672,701	17,631	222,199	18,619	12,198	4,624	5,593	379,079
Iron and steel scrap	9,488,276	778,681	3,679	483,925	10,180	391,882	26,434	60	1,213,747

Table 20A (continued)
Exports of Iron and Steel Products by Countries of Destination—1984
(Net tons)

EUROPE										
EUROPEAN ECONOMIC COMMUNITY										
Products	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed. Rep. Germany	Italy	Total E.E.C.*	Sweden	Spain	Total Europe
Other Steel Products										
Plates—Fabricated	54	1	1	—	18	—	76	5	—	82
Structural shapes—Fabricated	819	81	113	35	210	48	1,339	132	61	1,677
Sashes and frames	280	21	13	47	11	—	432	7	1	477
Rails—Used	4	—	—	6	7	—	17	—	—	17
Railway Track Material	—	—	—	3	—	—	3	—	—	3
Bolts, nuts	2,730	46	75	131	183	43	3,270	32	19	3,421
Architectural and ornamental work, NEC	48	184	1	47	1	1	283	—	29	313
Wire strand, rope, cables and cordage	151	12	122	22	106	13	448	2	25	580
Fabricated wire products	252	80	94	159	170	44	804	29	65	925
Wire springs	66	3	31	5	21	6	133	25	18	218
Welded wire mesh	36	2	—	2	5	23	67	4	—	80
Sheets—Fabricated	263	27	8	18	244	16	579	23	1	619
Cast steel rolls	—	—	441	3	1	—	445	—	—	445
Forgings	272	766	62	55	103	30	1,332	2	1	1,474
Chains and Parts	373	244	21	32	17	11	709	9	72	876
Pipe and tube fittings	1,017	214	54	292	366	76	2,060	39	32	2,431
Total Other Steel Products	6,347	1,861	1,037	856	1,464	311	11,989	306	323	13,541
Total Steel Products	19,835	4,529	5,658	17,853	11,659	44,714	105,807	4,785	1,803	119,668
Iron Products and Ferroalloys										
Cast iron pressure pipe	80	39	—	—	1	3	103	—	—	114
Cast iron soil pipe	—	—	—	—	—	—	—	—	—	8
Cast iron fittings not malleable	174	66	15	6	10	37	314	16	89	473
Cast iron fittings malleable	14	29	4	8	10	3	70	9	4	115
Iron castings	645	6	62	162	17	16	911	1	1	983
Pig iron	—	150	—	—	16	36,184	36,350	—	—	41,804
Sponge iron, iron or steel powders	208	229	87	52	195	45	814	161	32	1,077
Ferroalloys	632	63	50,083	130	13,366	1,400	65,675	289	1,686	67,871
Total Iron Products and Ferroalloys	1,734	581	50,250	358	13,615	37,688	104,226	476	1,811	112,524
Grand Total	21,569	5,110	55,908	18,011	25,274	82,402	210,043	5,241	3,614	232,192
Iron and steel scrap	5,461	24,105	24,491	2,549	18,608	305,658	505,854	17,142	608,431	1,941,693

*Includes totals for Denmark, Ireland and Greece.

Table 20A (continued)
Exports of Iron and Steel Products by Countries of Destination—1984
(Net tons)

Products	ASIA					OCEANIA		AFRICA	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Republic of South Africa	Total Africa
Other Steel Products									
Plates—Fabricated	—	49	—	273	487	7	7	—	135
Structural shapes—Fabricated	1,851	24,912	396	448	43,415	336	552	257	8,779
Sashes and frames	—	256	47	114	4,847	15	24	55	170
Platts—Used	—	—	—	—	4	—	20	—	—
Railway track material	—	7	—	4	579	10	10	1	7
Bolts, nuts	4	297	93	198	2,402	170	242	597	837
Architectural and ornamental work, NEC	—	149	7	90	1,013	9	11	7	347
Wire strand, rope, cables & cordage	7	118	110	34	1,106	62	108	154	492
Fabricated wire products	—	33	70	37	1,232	37	85	19	70
Wire springs	—	11	3	13	250	100	104	3	40
Welded wire mesh	25	52	50	—	1,046	4	29	—	255
Sheets—Fabricated	2	206	218	497	2,879	53	60	25	143
Cast steel rolls	—	—	1	22	24	—	5	—	—
Forgings	2	94	3	123	1,105	12	17,425	10	156
Chains and parts	87	81	38	156	681	236	275	114	196
Pipe and tube fittings	1	1,241	277	476	10,988	440	581	284	3,088
Total Other Steel Products	1,980	27,504	1,312	2,485	72,040	1,490	19,538	1,528	14,684
Total Steel Products	5,935	51,524	21,635	9,378	285,278	6,757	26,079	3,627	80,333
Iron Products and Ferroalloys									
Cast iron pressure pipe	—	71	40	9	3,715	12	23	2	4,157
Cast iron soil pipe	—	36	—	—	1,723	4	10	—	15,026
Cast iron fittings not malleable	—	143	33	36	5,693	75	143	126	1,894
Cast iron fittings malleable	—	124	46	7	746	197	208	5	198
Iron castings	4	—	30	7	106	39	41	—	197
Pig iron	—	5,254	—	—	5,813	28	28	—	—
Sponge iron, iron or steel powders	—	14	50	423	922	33	37	3	3
Ferroalloys	110	305	670	9,264	10,428	1,267	1,285	101	437
Total Iron Products and Ferroalloys	114	5,948	889	9,746	29,245	1,855	1,775	238	21,911
Grand Total	6,049	57,470	22,504	19,124	314,523	8,412	27,854	3,865	102,244
Iron and steel scrap	226,741	1,833,288	405,283	2,680,038	5,562,966	122	168	663	823

Table 21
Imports of Iron and Steel Products

(Net tons)

Products	1984 ^P	1983	1982	1981	1980
Steel Mill Products:					
Ingots, blooms, slabs, and billets, etc.....	1,515,837	822,483	716,588	790,062	155,343
Wire rods.....	1,589,788	1,185,291	941,390	888,442	829,259
Structural shapes (plain 3" & over).....	2,046,630	1,444,721	1,483,481	1,976,796	1,739,543
Steel piling.....	108,995	113,554	114,859	98,712	89,423
Plates.....	1,538,495	1,103,199	1,619,527	2,447,688	2,059,713
Rails and track accessories.....	350,299	152,853	320,341	282,868	271,172
Wheels and axles.....	23,591	6,500	19,931	35,701	142,904
Concrete reinforcing bars.....	434,147	208,303	51,676	52,645	78,639
Bar shapes under 3".....	174,788	88,288	59,707	105,417	136,947
Bars—Hot rolled.....	750,042	457,094	463,362	506,014	497,621
—Cold finished.....	328,419	191,605	218,306	232,005	146,782
Tool steel.....	32,054	30,423	†	†	†
Standard pipe.....	1,068,753	971,410	705,517		
Oil country goods.....	2,206,595	564,769	2,179,862		
Line pipe.....	982,669	494,424	1,122,408		
Mechanical tubing.....	283,248	40,124	49,424		
Pressure tubing.....	51,653	48,459	48,594		
Stainless pipe & tubing.....	32,186	19,159	†		
Structural pipe & tubing.....	320,691	186,621	†		
Other pipe and tubing.....	475,918	537,095	1,144,143	6,568,556	3,776,535
Wire Drawn.....	678,367	458,632	334,201	385,020	395,053
Bale ties & baling wire.....	2,986	448	129	83	437
Galvanized wire fencing.....	11,307	10,142	8,448	8,452	8,314
Wire nails.....	458,326	374,038	264,365	303,478	292,133
Barbed wire.....	27,729	28,927	18,162	26,942	18,937
Black Plate.....	278,003	170,420	119,507	97,842	68,245
Tin plate.....	355,777	290,535	216,243	286,271	308,353
Tin free steel.....	104,001	62,170	(Incl. in Sheets—Other—Elec. Ctd.)		
Terne plate.....	††	††	2,153	2,142	944
Sheets—Hot rolled.....	3,033,150	2,316,786	1,355,027	1,628,144	1,491,786
—Cold rolled.....	3,594,729	2,417,195	1,706,699	1,626,000	1,477,134
—Galvanized†††.....	2,729,584	1,824,163	1,227,875	1,303,595	1,349,793
All other metallic coated.....	224,232	286,295		(Incl. in galvanized)	
Electrical sheets & strip.....	89,324	46,595	(Incl. in Sheets Hot Rolled—Strip Cold Rolled)		
Strip—Hot rolled.....	79,591	32,531	21,653	24,939	15,806
—Cold rolled.....	181,313	84,644	49,207	50,870	46,972
—Hot and cold rolled—Alloy.....	†	†	22,361	23,091	15,328
Sheets—Other—Electric coated.....	†	†	57,388	56,565	81,854
Total Steel Mill Products.....	26,163,218	17,069,895	16,662,532	19,898,340	15,349,970
Carbon.....	24,913,727	16,343,643	15,376,328	18,615,633	14,783,625
Alloy.....	986,938	535,928	1,083,683	1,091,514	558,671
Stainless.....	262,554	190,324	202,521	191,193	152,674

†Included in other individual product classifications.

††Included in all other metallic coated.

†††Included in all other metallic ctd. prior to 1983.

Table 21 (continued)
Imports of Iron and Steel Products

(Net tons)

Products	1984 ^P	1983	1982	1981	1980
Other Steel Products:					
Structural shapes, fabricated.....	278,310	203,312	144,959	167,567	174,422
Shapes—Cold formed.....	1,770	1,552	615	485	368
Sashes and frames.....	2,785	1,432	997	703	501
Fence or sign posts.....	12,317	5,909	2,805	1,162	2,154
Wire—Nonmetallic coated.....	1,034	747	528	1,006	331
Wire rope.....	147,820	106,594	108,593	121,414	93,622
Wire strand.....	184,704	163,228	172,803	148,541	157,396
Welded wire fabric.....	23,167	17,755	19,933	13,730	19,027
Other nails and staples.....	44,554	38,117	23,530	26,243	24,684
Bale ties, made from strip.....	675	643	1,196	1,389	2,050
Bolts, nuts, and rivets.....	674,880	443,142	421,661	445,312	429,679
Grinding balls.....	10,804	4,990	8,699	14,347	16,147
Blanks, nonrectangular flat rolled.....	13,085	5,536	4,016	4,830	6,011
Rigid conduit.....	3,915	3,169	1,656	1,920	2,053
Pipe and tube fittings.....	110,370	72,657	113,186	132,066	88,264
Total Other Steel Products.....	1,510,189	1,068,782	1,025,177	1,080,715	1,016,709
Total Steel Products.....	27,673,407	18,138,677	17,687,709	20,979,055	16,511,679
Iron Products and Ferroalloys:					
Bar iron, iron slabs and blooms, etc.....	117	150	73	177	1,144
Cast iron soil pipe and fittings.....	1,729	439	514	1,040	742
Other cast iron pipe and fittings.....	14,887	9,541	8,745	7,841	5,842
Malleable cast iron pipe fittings.....	26,276	19,153	18,718	16,360	17,275
Castings and forgings.....	176,234	106,874	108,163	122,978	117,655
Pig iron.....	702,461	242,142	321,699	433,017	400,035
Sponge iron.....	175,328	135,321	50,471	75,710	65,793
Ferromanganese (manganese content).....	320,790	266,327	379,167	516,651	473,399
Ferrosilicon (silicon content).....	96,302	106,666	53,130	110,742	46,967
Ferrochromium (chromium content).....	242,723	162,998	84,777	244,314	162,443
Other ferroalloys.....	117,820	113,096	56,836	121,495	75,046
Total Iron Products and Ferroalloys.....	1,874,666	1,162,707	1,082,293	1,650,325	1,366,341
Grand Total.....	29,548,073	19,301,384	18,770,002	22,629,380	17,878,020
Iron and Steel Scrap.....	577,251	640,770	474,190	561,766	558,142

Table 22
Imports of Iron and Steel Products

(Net tons)

Products	1984 ^P	1983	1982	1981	1980	1979	1978	1977	1976	1975
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	1,515,837	322,483	716,588	790,062	155,343	344,693	413,899	297,711	240,110	242,836
Wire rods	1,589,788	1,185,291	941,390	888,442	829,259	985,414	1,326,580	1,341,575	1,120,744	1,112,772
Structural shapes and piling	2,155,625	1,558,275	1,598,340	2,075,508	1,828,966	1,984,782	1,926,967	1,817,187	1,124,451	876,161
Plates	1,538,495	1,103,199	1,619,527	2,447,688	2,059,713	1,819,812	2,924,989	2,116,459	1,596,429	1,403,265
Rails and accessories	373,890	159,353	340,272	318,569	414,076	313,223	285,885	207,191	113,667	175,418
Bars and tool steel	1,719,450	975,713	793,051	986,081	859,989	1,127,414	1,337,014	1,363,907	935,790	923,705
Pipe and tubing	5,421,713	2,862,061	5,249,948	6,568,556	3,776,535	2,920,019	3,045,910	2,473,740	2,005,152	1,684,766
Wire and wire products	1,178,715	872,187	625,303	723,975	714,874	827,257	1,074,781	977,234	815,359	647,087
Tin mill products	737,781	523,125	337,903	386,255	377,542	344,851	426,566	465,134	324,470	414,860
Sheets and strip	9,931,923	7,008,209	4,440,210	4,713,204	4,478,673	6,850,670	8,371,991	8,246,474	5,708,433	4,531,572
Total Steel Mill Products	26,163,218	17,069,895	16,662,532	19,898,340	15,494,970	17,518,135	21,134,582	19,306,612	14,284,605	12,012,442
Other Steel Products	1,510,189	1,068,782	1,025,177	1,080,715	1,016,709	1,149,511	1,129,578	985,233	651,939	656,963
Total Steel Products	27,673,407	18,138,677	17,687,709	20,979,055	16,511,679	18,667,646	22,264,160	20,291,845	14,936,544	12,669,405
Iron Products and Ferroalloys	1,874,666	1,162,707	1,082,293	1,650,325	1,366,341	1,658,908	1,804,126	1,366,278	1,357,184	1,249,840
Grand Total	29,548,073	19,301,384	18,770,002	22,629,380	17,878,020	20,326,554	24,068,286	21,658,123	16,293,728	13,919,245

Table 23
Imports of Steel Mill Products

(Net tons)

Months	1984 ^P	1983	1982	1981	1980	1979	1978	1977	1976	1975
January	2,081,905	1,097,621	1,968,663	1,281,332	1,265,093	1,264,346	1,537,793	1,121,267	1,006,896	1,801,358
February	2,160,912	1,156,903	1,600,300	1,234,087	1,666,905	1,329,115	2,219,592	1,002,459	966,145	1,192,004
March	2,225,055	1,113,127	1,355,969	1,141,878	1,119,981	1,095,893	1,988,233	1,175,410	1,033,899	1,153,380
April	2,215,824	1,182,177	1,029,288	1,760,883	1,249,874	1,071,955	2,174,892	1,114,786	948,334	959,036
May	1,997,669	1,352,954	1,695,850	1,772,326	1,614,653	1,654,757	1,511,255	1,817,390	1,071,425	856,158
June	1,775,968	1,296,840	1,783,632	1,665,347	1,202,689	1,365,619	1,359,820	1,818,620	1,354,854	927,035
July	2,655,913	1,410,816	1,113,031	1,663,042	1,079,040	1,514,423	1,784,814	1,582,037	1,190,080	804,651
August	2,515,952	1,617,273	1,450,515	2,226,364	1,374,121	1,783,935	1,870,390	1,831,115	1,201,166	748,176
September	2,181,795	1,521,966	1,190,779	1,747,583	1,063,755	1,640,695	1,584,169	2,057,413	1,282,664	697,209
October	1,985,702	1,755,164	1,145,847	1,871,511	1,141,939	1,603,188	1,715,239	1,761,726	1,267,934	817,768
November	2,208,978	1,835,197	1,258,423	1,921,117	1,179,301	1,651,951	2,016,345	1,937,947	1,596,834	902,900
December	2,157,543	1,729,858	1,090,494	1,612,870	1,533,920	1,542,258	1,372,040	2,086,549	1,364,403	1,152,767
Total*	26,163,218	17,069,895	16,662,532	19,898,340	15,494,970	17,518,135	21,134,582	19,306,612	14,284,605	12,012,442

*Revised totals include adjustments not shown in monthly figures.

Table 24
Imports of Steel Mill Products By Countries of Origin
(Net Tons)

	1984			1983			1982			1981			1980		
	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**
Canada.....	3,187,308	12.1	3.2	2,378,817	13.9	2.9	1,844,199	11.1	2.4	2,898,795	14.8	2.7	2,389,501	15.3	2.5
Mexico.....	796,812	3.0	0.8	651,009	3.8	0.8	112,875	0.7	0.1	40,904	0.2	...	67,395	0.4	0.1
Brazil.....	1,460,848	5.6	1.5	1,257,006	7.4	1.5	604,636	3.6	0.8	547,884	2.8	0.5	457,724	3.0	0.5
Argentina.....	300,174	1.1	0.3	282,253	1.7	0.3	167,487	1.0	0.2	61,121	0.3	0.1	18,253	0.1	...
Total Latin America.....	3,132,081	12.0	3.2	2,414,527	14.2	2.9	974,399	5.8	1.3	762,158	3.9	0.8	629,938	4.1	0.7
United Kingdom.....	476,229	1.8	0.5	363,750	2.1	0.4	486,436	2.9	0.6	573,676	2.9	0.5	236,784	1.5	0.2
Netherlands.....	446,355	1.7	0.5	370,681	2.2	0.4	375,481	2.2	0.5	462,572	2.3	0.4	340,302	2.2	0.4
Belgium-Luxembourg.....	921,036	3.5	0.9	615,008	3.6	0.7	929,440	5.5	1.2	1,108,593	5.6	1.1	670,058	5.6	0.9
France.....	1,126,512	4.3	1.1	913,743	5.4	1.1	977,372	5.9	1.3	1,289,365	6.5	1.2	966,987	6.2	1.0
West Germany.....	2,543,272	9.7	2.6	1,386,655	8.1	1.7	2,080,130	12.5	2.7	2,164,352	10.9	2.1	1,298,068	8.4	1.4
Italy.....	654,490	2.5	0.7	395,356	2.3	0.5	643,627	3.9	0.8	768,121	3.9	0.7	174,054	1.1	0.2
Total EEC*.....	6,334,405	24.2	6.4	4,114,298	24.1	4.9	5,596,636	33.6	7.3	6,482,137	32.6	6.1	3,886,777	25.1	4.1
Sweden.....	639,354	2.4	0.6	213,811	1.3	0.3	292,231	1.8	0.4	169,503	0.9	0.2	91,321	0.6	0.1
Finland.....	298,735	1.1	0.3	196,294	1.1	0.2	121,256	0.7	0.2	124,545	0.6	0.1	36,463	0.2	...
Poland.....	132,289	0.5	0.1	77,242	0.5	0.1	42,253	0.3	0.1	167,496	0.8	0.2	119,498	0.8	0.1
Spain.....	1,392,041	5.3	1.4	609,653	3.6	0.7	547,207	3.3	0.7	729,798	3.7	0.7	462,430	3.0	0.5
Romania.....	264,274	1.0	0.3	9,426	0.1	...	36,730	0.2	...	307,364	1.5	0.3	57,581	0.4	0.1
Total Europe.....	9,982,748	38.1	10.1	5,309,764	31.1	6.4	6,774,636	40.7	8.9	8,077,373	40.6	7.7	4,743,912	30.6	5.0
Japan.....	6,630,005	25.3	6.7	4,236,915	24.8	5.1	5,185,138	31.1	6.8	6,220,083	31.3	5.9	6,006,813	38.8	6.3
Korea Republic.....	2,234,331	8.5	2.3	1,727,573	10.1	2.1	1,062,076	6.4	1.4	1,218,381	6.1	1.2	1,039,895	6.7	1.1
China-Taiwan.....	160,118	0.6	0.2	177,161	1.0	0.2	117,574	0.7	0.2	131,192	0.7	0.1	85,949	0.6	0.1
Republic of So. Africa.....	556,545	2.1	0.6	556,896	3.3	0.7	529,782	3.2	0.7	371,098	1.9	0.4	440,661	2.8	0.5
Total Asia & Africa.....	9,685,397	37.0	9.8	6,761,079	39.8	8.1	6,939,285	41.6	9.1	8,011,266	40.3	7.6	7,619,964	49.2	8.0
Australia & Oceania.....	215,683	0.8	0.2	205,908	1.2	0.2	130,011	0.8	0.2	128,750	0.6	0.1	131,655	0.8	0.1
Total Imports of Steel Mill Products.....	26,163,218	100.0	26.4	17,069,895	100.0	20.5	18,662,532	100.0	21.8	19,898,340	100.0	18.9	15,494,970	100.0	16.3

*Includes total for Denmark and Ireland. Includes Greece starting in 1981.

**As developed in table 1A of this Report.

Country detail may not add to regional total because of omissions of some countries.

Table 25
Imports of Iron and Steel Products by Countries of Origin—1984
(Net tons)

Products	Grand Total	Canada	Mexico	Latin America			Total Latin America
				Vene- zuela	Brazil	Argen- tina	
Steel Mill Products							
Ingots, blooms, billets, slabs, etc.	1,515,837	265,797	12,188	66	105,209	—	117,462
Wire rods	1,569,768	368,360	125,473	21,620	35,279	61,990	308,057
Structural shapes—plain 3" & over	2,046,630	242,658	51,933	—	17,334	512	69,870
Steel piling	108,995	7,581	—	—	—	—	—
Plates	1,538,495	208,069	60,470	8,108	48,450	4,512	126,502
Rails standard	147,715	14,726	—	—	—	—	—
Rails other	88,979	38,369	1	—	6	—	6
Joint bars and tie plates	112,962	4,390	—	—	121	—	121
Track spikes	643	214	—	—	—	—	—
Wheels and axles	23,591	7,396	10	—	2,638	—	2,648
Bars—hot rolled	750,042	285,834	6,754	221	105,891	10,099	126,794
Bars shapes under 3 inches	174,788	44,176	3,904	—	15,138	644	19,735
Concrete reinforcing bars	434,147	1,159	56,795	83,834	143,096	159	284,967
Bars—cold finished	328,419	38,998	911	—	27,841	4,133	32,885
Tool steel	32,054	2,706	279	—	791	148	1,217
Standard pipe	1,068,753	51,824	97,421	28,180	129,404	2,577	257,581
Oil country goods	2,206,595	161,176	64,253	28,031	47,198	20,192	159,873
Line pipe	982,669	20,865	84,299	83,645	54,284	3,836	226,064
Mechanical tubing	283,248	46,899	5,222	724	17,112	70	23,224
Pressure tubing	51,653	544	863	268	4,432	2,213	7,775
Stainless pipe & tubing	32,186	1,559	43	—	2	—	45
Pipe & tubing nonclassified	320,691	42,207	26,068	10,868	20,406	1,957	59,299
Structural pipe & tube, square & rectangular	475,918	106,116	5,275	16,407	50,205	1,063	72,951
Wire drawn	678,367	177,406	1,786	2,349	27,700	936	40,718
Wire nails	458,326	70,068	3,939	302	9,575	8,498	22,557
Barbed wire	27,729	236	2,694	—	7,091	3,687	13,473
Galvanized wire fencing	11,307	4,267	4,546	2	—	—	4,547
Bale ties & baling wire	2,988	1	120	—	36	—	158
Black plate	278,003	9,837	318	—	4,122	1,586	6,026
Tin plate	355,777	40,185	—	2,002	—	—	2,002
Tin free steel	104,001	1,745	—	1,053	—	—	1,053
Sheets—hot rolled	3,033,150	427,899	33,942	127,495	231,625	—	396,758
Sheets—cold rolled	3,594,729	128,062	60,828	41,830	263,895	152,840	525,784
Sheets—galvanized	2,729,584	290,755	70,928	24,747	26,849	15,124	137,648
All other metallic coated	224,232	879	3,204	150	1,994	1,965	7,352
Electric sheets & strip	89,324	11,136	—	—	1,130	—	1,145
Strip—hot rolled	79,591	8,789	11,212	—	31,522	1,433	44,323
Strip—cold rolled	181,313	34,417	1,135	—	30,473	—	31,600
Total steel mill products	26,163,218	3,167,308	796,812	481,902	1,460,848	300,174	3,132,081
Carbon	24,913,727	2,971,940	777,892	480,174	1,402,237	299,137	3,051,769
Alloy	986,938	185,781	16,126	1,728	52,597	965	71,431
Stainless	262,554	9,587	2,795	—	6,014	72	8,881

Country total may not add to regional total because of omissions of some countries.

Table 25 (continued)
Imports of Iron and Steel Products by Countries of Origin—1984

57
IMPORTS
Countries of Origin

(Net tons)

Products	Europe														Total Europe
	European Economic Community								Sweden	Finland	Austria	Poland	Spain		
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Total E.E.C.*							
Steel Mill Products															
Ingot, blooms, billets, slabs, etc.	41,591	49,143	173,671	55,938	491,337	5,335	—	817,018	257,840	10,720	—	—	23,575	1,109,417	
Wire rods	41,821	18,314	17,876	119,703	22,521	11,579	—	231,835	32,459	10,896	5,614	1,113	133,476	547,933	
Structural shapes—plain 3" & over	94,455	160	200,234	45,758	102,992	187	—	443,787	383	126	183	46,438	270,257	814,313	
Steel piling	9,206	—	27,967	22,488	25,259	—	—	84,919	—	—	—	—	128	85,047	
Plates	29,141	5,956	125,941	18,428	84,211	25,134	—	290,096	86,264	109,974	6,539	49,561	174,946	977,617	
Rails															
Rails standard	—	—	1,944	26,346	36,205	—	—	64,496	—	—	67	—	—	64,563	
Rails other	3,074	1	8,953	1,181	11,066	—	—	24,274	—	—	312	—	—	24,588	
Joint bars and tie plates	598	—	33	—	196	—	—	827	5	—	—	—	—	832	
Track spikes	—	—	—	—	1	—	—	1	—	—	—	—	—	1	
Wheels and axles	23	—	124	3,548	802	336	—	4,832	157	—	75	—	—	5,064	
Bars															
Bars—hot rolled	80,789	138	19,861	2,893	21,116	1,909	—	126,706	16,582	395	615	613	48,425	193,981	
Bars shapes under 3 inches	5,656	306	18,607	669	2,722	668	—	28,631	552	—	264	583	7,851	38,282	
Concrete reinforcing bars	131	—	—	—	192	—	—	323	—	—	—	—	54,188	54,511	
Bars—cold finished	39,291	79	519	51,664	7,730	5,853	—	105,136	2,079	1,388	275	574	39,007	148,561	
Tool steel	1,030	20	—	763	6,651	1,055	—	9,519	9,421	—	3,002	253	98	22,293	
Pipes and Tubing															
Standard pipe	5,945	25,956	26,061	7,818	67,840	11,850	2,544	148,035	2,327	1,234	166	973	49,865	219,578	
Oil country goods	12,996	609	19,902	51,800	339,256	282,580	69,447	776,591	2,745	1,047	55,908	154	69,851	939,261	
Line pipe	13,345	330	2,854	41,830	163,150	22,725	10,771	255,005	4,912	7,150	—	366	5,810	281,825	
Mechanical tubing	6,132	441	451	6,075	17,397	13,977	753	45,244	13,426	—	199	841	29,473	90,559	
Pressure tubing	2,166	68	466	2,545	8,444	3,046	—	16,758	2,348	—	1	—	6,502	26,699	
Stainless pipe & tubing	1,418	271	38	1,969	2,009	1,627	—	7,336	7,585	3	524	—	522	18,014	
Pipe & tubing nonclassified	3,368	2,518	1,183	6,205	30,419	2,293	8,378	70,603	33	2	36	—	17,684	88,755	
Structural pipe & tube, square & rectangular	1,462	247	5,089	7,994	8,949	20,662	2,572	46,975	813	1,735	615	1,115	39,930	110,116	
Wire															
Wire drawn	32,310	2,071	79,758	53,618	31,172	14,719	9	213,680	13,196	1,589	4,083	280	3,328	239,482	
Wire nails	654	738	1,730	1,751	436	374	—	6,987	21	3	727	23,518	28,855	86,245	
Barbed wire	73	—	4,112	—	23	—	—	4,209	—	—	—	3,783	123	8,115	
Galvanized wire fencing	3	72	1,732	—	102	—	—	1,909	—	—	21	20	24	1,954	
Bale ties & baling wire	—	—	204	—	58	—	—	474	—	—	—	—	2,204	2,698	
Plate															
Black plate	241	14,187	39,595	7,298	7,033	—	26,560	94,934	22	—	—	—	—	94,956	
Tin plate	702	10,102	3,942	26,087	31,327	—	—	72,159	—	—	—	—	898	77,932	
Tin free steel	66	881	158	8,496	37,668	—	—	47,268	—	—	—	—	—	47,268	
Sheets and Strips															
Sheets—hot rolled	9,458	178,134	40,126	322,161	319,063	84,544	—	953,488	96,281	81,908	82,313	521	58,072	1,350,749	
Sheets—cold rolled	24,116	133,034	74,308	153,431	406,144	84,742	35,938	911,714	74,674	60,291	149,616	—	230,621	1,554,680	
Sheets—galvanized	5,800	2,460	18,773	60,782	188,679	24,161	36	298,491	1,173	6,212	14,908	1,560	85,897	480,120	
All other metallic coated	196	81	809	8,891	20,481	181	—	30,819	3	—	—	—	6,557	37,507	
Electric sheets & strip	2,568	—	236	706	19,644	18,208	—	41,361	6,204	—	—	—	—	47,565	
Strip—hot rolled	194	—	1,103	—	3,847	6	62	5,212	161	—	1	22	1,078	6,482	
Strip—cold rolled	6,210	37	4,638	7,675	27,131	522	6,741	52,958	7,288	4,063	56	—	2,797	67,187	
Total steel mill products	476,229	446,355	921,936	1,126,512	2,543,272	654,490	163,832	6,334,405	639,354	298,735	326,120	132,289	1,392,041	9,982,747	
Alloy															
Carbon	405,991	430,956	902,685	999,591	2,410,485	590,759	163,832	5,906,948	535,237	290,732	315,301	131,997	1,330,813	9,350,298	
Alloy	62,263	14,446	11,722	82,589	115,546	46,567	—	333,134	77,021	1,783	10,049	292	41,988	484,754	
Stainless	7,975	953	6,629	44,332	17,240	17,165	—	94,322	27,096	6,220	770	—	19,240	147,895	

*Includes totals for Ireland & Denmark.

Table 25 (continued)
Imports of Iron and Steel Products by Countries of Origin—1984

Products	(Net tons)					Australia & Oceania		Africa	
	Asia					Australia	Oceania	Republic of South Africa	Total Africa
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia				
Steel Mill Products									
Ingots, blooms, billets, slabs, etc.	—	19,765	—	3,393	23,158	1	1	2	2
Wire rods	—	5,616	2,877	337,406	346,998	3,000	3,900	12,676	14,539
Structural shapes—plain 3" & over	—	96,605	4,923	697,407	798,942	379	379	120,468	120,468
Steel piling	—	4,370	184	8,406	12,960	—	—	3,407	3,407
Plates	—	71,193	5,611	58,985	135,870	1,015	1,015	89,422	89,422
Rails standard	—	2,063	—	66,364	68,427	—	—	—	—
Rails other	—	5,758	133	20,124	26,015	—	—	—	—
Joint bars and tie plates	—	238	—	107,380	107,619	—	—	—	—
Track spikes	232	151	7	38	428	—	—	—	—
Wheels and axles	559	73	68	7,457	8,178	—	—	305	305
Bars—hot rolled	1,345	15,338	1,420	117,830	143,345	1	1	86	88
Bars shapes under 3 inches	—	9,843	20,876	40,446	71,165	91	91	1,194	1,339
Concrete reinforcing bars	—	73,996	—	10,974	84,970	—	—	8,539	8,539
Bars—cold finished	36	4,766	806	96,925	102,533	—	—	5,441	5,441
Tool steel	98	769	—	4,969	5,836	1	1	—	—
Standard pipe	—	366,183	15,626	101,057	494,306	12,533	12,557	32,907	32,907
Oil country goods	2	277,858	14,087	642,211	938,356	307	307	7,823	7,823
Line pipe	—	169,281	4,642	276,659	452,170	1,608	1,608	138	138
Mechanical tubing	—	20,264	10,229	85,452	116,162	1,165	1,165	3,238	3,238
Pressure tubing	—	222	1	15,007	15,672	616	617	348	348
Stainless pipe & tubing	—	976	23	13,562	14,561	7	7	—	—
Pipe & tubing nonclassified	—	55,827	6,617	60,737	123,296	521	521	6,612	6,612
Structural pipe & tube, square & rectangular	—	17,466	2,391	160,446	180,721	3,062	3,062	2,953	2,953
Wire drawn	2,357	7,017	2,256	190,817	202,896	2,108	4,095	13,770	13,770
Wire nails	41,165	191,495	4,676	40,191	279,178	19	200	79	79
Barbed wire	206	5,332	—	89	5,827	5	157	101	121
Galvanized wire fencing	—	3	—	—	3	—	427	109	109
Bale ties & baling wire	55	—	—	56	112	—	—	19	19
Black plate	—	840	—	166,145	166,985	22	22	177	177
Tin plate	—	7,760	—	209,603	217,363	18,273	18,273	22	22
Tin free steel	—	457	—	53,478	53,935	—	—	—	—
Sheets—hot rolled	—	227,778	33,812	466,738	728,331	10,644	10,644	105,983	118,769
Sheets—cold rolled	—	395,171	27,933	861,727	1,289,657	17,715	17,715	78,829	78,829
Sheets—galvanized	—	164,881	167	1,462,931	1,629,233	106,286	125,214	60,347	66,613
All other metallic coated	—	8,159	—	157,365	165,525	11,120	11,439	1,529	1,529
Electric sheets & strip	—	51	—	29,426	29,477	1	1	—	—
Strip—hot rolled	—	6,620	—	13,378	19,998	—	—	—	—
Strip—cold rolled	—	144	753	44,828	45,763	2,164	2,264	21	21
Total steel mill products	48,055	2,234,331	160,118	6,630,005	9,107,771	192,666	215,683	556,545	577,626
Carbon	45,957	2,215,585	159,284	6,288,757	8,746,840	192,636	215,653	556,145	577,226
Alloy	98	1,489	644	262,558	264,792	22	22	156	156
Stainless	—	17,256	190	78,690	96,139	8	8	244	244

Table 25A
Imports of Iron and Steel Products by Countries of Origin—1984

(Net tons)

Products	Grand Total	Canada	Mexico	Latin America			Total Latin America
				Vene- zuela	Brazil	Argen- tina	
Other Steel Products:							
Structural shapes, fabricated.....	278,310	74,895	6,625	25	2,476	—	9,478
Shapes—cold formed.....	1,770	1,549	—	—	—	—	—
Sashes and frames.....	2,785	2,165	3	26	—	—	29
Fence or sign posts.....	12,317	64	11,863	8	—	—	11,871
Wire—nonmetallic covered.....	1,034	148	—	42	—	18	60
Wire rope.....	147,820	4,626	868	7	2,813	—	3,689
Wire strand.....	184,704	3,960	371	89	5,057	8,259	13,796
Welded wire fabric.....	23,167	11,294	4,110	584	—	2	4,697
Other nails and staples.....	44,554	1,814	4	—	65	21	1,419
Bale ties—strip.....	675	1	—	—	—	—	—
Bolts, nuts and rivets.....	674,880	68,015	1,363	—	2,564	39	3,967
Grinding balls.....	10,804	3,503	22	—	5,993	—	6,016
Blanks, nonrectangular flat rolled.....	13,085	1,301	151	—	5,682	1,462	7,295
Rigid conduit.....	3,915	168	122	—	55	—	177
Pipe and tube fittings.....	110,370	3,767	361	727	5,610	11	6,708
Total other steel products.....	1,510,189	177,271	25,864	1,510	30,317	9,811	69,202
Total steel products.....	27,673,407	3,344,579	822,676	483,412	1,491,165	309,985	3,201,283
Iron products & ferroalloys:							
Bar iron, iron slabs & blooms etc.....	117	4	—	—	—	—	—
Cast iron soil pipe and fittings.....	1,729	166	23	625	—	—	648
Other cast iron pipe and fittings.....	14,887	3,090	209	—	989	—	1,198
Malleable cast iron pipe fittings.....	26,276	82	232	—	1,637	—	1,869
Castings and forgings.....	176,234	20,855	8,191	271	13,252	—	21,733
Pig iron.....	702,461	171,795	3	54,274	421,176	—	475,453
Sponge iron.....	175,328	40,577	—	122,128	—	—	122,129
Ferromanganese (manganese content).....	320,790	1,409	29,399	—	7,266	—	36,665
Ferrosilicon (silicon content).....	96,302	10,581	26	19,215	22,583	1,319	43,965
Ferrochromium (chromium content).....	242,723	15	—	—	7,055	—	7,055
Other ferroalloys.....	117,820	1,497	10,333	—	34,410	—	56,173
Total Iron Products & Ferroalloys.....	1,874,686	250,071	48,415	196,512	508,368	1,319	766,889
Grand Total.....	29,548,073	3,594,650	871,091	679,924	1,999,533	311,304	3,968,172
Iron and steel scrap.....	577,261	535,483	22,509	227	27	—	28,537

Country total may not add to regional total because of omissions of some countries.

Table 25A (continued)
Imports of Iron and Steel Products by Countries of Origin—1984
(Net tons)

Products	Europe														Total Europe
	European Economic Community														
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Total E.E.C.*	Sweden	Finland	Austria	Poland	Spain		
Other Steel Products:															
Structural shapes, fabricated.....	2,967	406	2,130	528	1,408	3,266	—	11,968	1,555	208	156	—	1,177	20,467	
Shapes—cold formed.....	2	22	—	—	32	—	—	57	29	6	55	—	—	150	
Sashes and frames.....	19	32	—	11	234	28	—	392	41	—	1	—	—	435	
Fence or sign posts.....	1	—	3	44	88	1	—	151	—	—	—	—	—	152	
Wire—nonmetallic covered.....	220	—	4	32	85	1	—	392	1	—	—	—	—	409	
Wire rope.....	903	962	28,240	14,054	2,099	2,962	—	49,303	16	—	5	—	7,140	57,574	
Wire strand.....	4,591	5,678	7,132	13,239	5,022	20,991	—	56,653	118	—	2,382	—	23,414	83,006	
Welded wire fabric.....	2,099	1,376	1,195	8	238	24	—	4,940	—	—	—	—	504	5,470	
Other nails and staples.....	577	184	66	1,799	5,768	1,791	—	10,185	2,810	—	2,465	65	1,310	18,944	
Bale ties—strip.....	—	—	—	2	671	—	—	673	—	—	—	—	—	673	
Bolts, nuts and rivets.....	1,459	3,021	107	607	7,097	13,716	—	26,442	1,500	3	92	1,834	7,157	48,154	
Grinding balls.....	48	19	—	—	59	357	—	483	—	—	26	—	8	517	
Blanks, nonrectangular flat rolled.....	103	403	83	69	304	61	—	1,023	110	—	55	—	922	2,109	
Rigid conduit.....	41	41	—	1,929	142	1	—	2,158	1	—	—	—	—	2,277	
Pipe and tube fittings.....	5,370	283	41	5,845	8,500	11,070	—	31,117	78	9	612	—	2,608	36,090	
Total other steel products.....	18,399	12,427	39,001	38,166	31,747	54,269	—	195,935	6,259	227	5,849	1,899	44,240	274,427	
Total steel products.....	494,628	458,782	960,037	1,164,678	2,575,019	708,759	163,832	6,530,340	645,613	298,962	331,969	134,188	1,436,281	10,237,174	
Iron products & ferroalloys:															
Bar iron, iron slabs & blooms etc.....	79	—	—	—	—	1	—	80	—	—	—	—	—	81	
Cast iron soil pipe and fittings.....	—	—	—	—	21	—	—	21	—	—	—	—	—	21	
Other cast iron pipe and fittings.....	337	107	5	—	270	—	—	719	3	—	—	—	7	729	
Malleable cast iron pipe fittings.....	229	—	—	25	24	2	—	281	165	—	—	—	—	445	
Castings and forgings.....	2,903	499	294	4,796	6,741	31,502	—	46,967	29	2	99	—	2,698	50,871	
Pig iron.....	—	—	—	1,704	76	—	14,963	16,743	—	—	—	—	6,917	23,660	
Sponge iron.....	186	—	40	—	1,401	1,220	—	2,847	6,683	—	—	—	8	9,559	
Ferromanganese (manganese content).....	—	—	757	96,452	19,793	—	—	117,003	—	—	—	—	5,207	171,357	
Ferrosilicon (silicon content).....	1	11	118	3,146	2,058	330	—	5,663	83	—	—	310	814	40,587	
Ferrochromium (chromium content).....	—	29	—	27	3,628	3,525	—	7,209	3,852	—	—	—	632	60,461	
Other ferroalloys.....	504	25	355	1,196	333	106	—	2,519	35	—	536	—	882	27,944	
Total Iron Products & Ferroalloys.....	4,235	672	1,569	107,345	34,345	36,685	14,963	200,052	10,850	2	635	310	17,164	385,715	
Grand Total.....	498,867	459,454	961,606	1,272,023	2,609,364	745,444	178,795	6,730,392	656,463	298,964	332,604	134,498	1,453,445	10,622,889	
Iron and steel scrap.....	2,323	1	63	187	2,141	9	2,706	7,810	750	2	55	—	—	9,607	

*Includes totals for Ireland & Denmark.

Table 25A (continued)
Imports of Iron and Steel Products by Countries of Origin—1984

Products	Asia					Australia & Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Australia & Oceania	Republic of South Africa	Total Africa
Other Steel Products:									
Structural shapes, fabricated	37	57,527	948	103,969	172,514	156	370	586	586
Shapes—cold formed	—	3	—	67	71	—	—	—	—
Sashes and frames	—	111	33	7	153	1	1	3	3
Fence or sign posts	—	1	69	22	217	—	13	—	—
Wire—nonmetallic covered	—	167	115	92	417	—	—	—	—
Wire rope	78	55,897	1,673	23,202	81,022	—	2	907	907
Wire strand	—	27,460	957	44,404	73,172	1	1	10,769	10,769
Welded wire fabric	1,498	—	4	160	1,677	—	7	22	22
Other nails and staples	2,905	16,149	850	4,238	24,356	—	2	19	19
Bale ties—strip	—	—	—	—	—	—	—	—	—
Bolts, nuts and rivets	21,956	26,282	174,571	321,652	553,128	659	662	954	954
Grinding balls	—	—	—	768	768	—	—	—	—
Blanks, nonrectangular flat rolled	—	314	4	1,509	1,827	—	—	553	553
Rigid conduit	185	915	49	53	1,292	—	—	—	—
Pipe and tube fittings	877	10,427	10,792	38,443	63,157	610	610	18	37
Total other steel products	27,538	205,254	190,067	538,591	973,773	1,428	1,667	13,830	13,850
Total steel products	73,591	2,439,585	350,185	7,168,596	10,081,544	194,092	217,350	570,375	591,476
Iron products & ferroalloys:									
Bar iron, iron slabs & blooms etc.	—	—	2	—	20	12	12	—	—
Cast iron soil pipe and fittings	—	115	630	—	894	—	—	—	—
Other cast iron pipe and fittings	496	3,077	1,263	92	9,843	—	26	—	—
Malleable cast iron pipe fittings	319	3,734	4,889	10,963	23,857	—	—	22	22
Castings and forgings	8,467	3,217	10,710	9,255	81,341	163	470	958	965
Pig iron	—	—	6	58	64	—	—	31,489	31,489
Sponge iron	—	—	—	3,063	3,063	—	—	—	—
Ferromanganese (manganese content)	—	—	—	2,225	2,225	4,637	4,637	104,497	104,497
Ferrosilicon (silicon content)	—	—	—	90	90	—	—	1,079	1,079
Ferrochromium (chromium content)	—	—	—	64	5,848	—	—	138,945	138,945
Other ferroalloys	9	—	—	1,072	1,081	9,344	12,389	15,704	18,736
Total iron products & ferroalloys	9,291	10,143	17,500	26,883	128,325	14,156	17,534	292,694	326,133
Grand Total	82,882	2,449,728	367,685	7,195,479	10,209,869	208,248	234,884	863,069	917,609
Iron and steel scrap	—	—	44	3,157	3,201	—	423	—	—

Table 26
Imports of Iron and Steel Products by Customs District—1984
(Net tons)

Products	ATLANTIC COAST													Total
	Grand Total	Boston	Providence Bridgport	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wilmington	Charleston	Savannah	Tampa	Miami		
Steel Mill Products														
Ingots, blooms, billets, slabs, etc.	1,515,837	29	45,868	175,971	123,026	1,908	276	—	11,123	578	82	—	358,861	
Wire rods	1,589,786	1,338	56,778	24,967	61,825	41,863	4,232	710	6,679	32,331	58,873	12,679	309,276	
Structural shapes—plain 3" & over	2,046,630	231	159,741	9,638	34,850	60,713	88	59,250	1,960	77,973	63,369	4,115	471,928	
Steel piling	108,995	—	28,263	2,286	1,272	479	—	642	—	3,783	4,162	3,319	44,206	
Plates	1,538,495	35	96,596	2,897	29,484	14,524	695	27,837	410	34,842	38,521	4,646	250,287	
Rails standard	147,716	—	782	—	1,699	2,801	—	—	—	4,858	—	—	10,140	
Rails other	88,979	—	63	97	6,694	363	273	—	1	3,768	162	—	11,421	
Joint bars and tie plates	112,962	—	—	133	123	4,899	—	—	—	—	—	—	5,156	
Track spikes	643	—	—	—	7	119	—	107	—	—	—	—	233	
Wheels and axles	23,591	191	69	1,182	4,584	1,452	96	—	366	38	3	7	7,988	
Bars—Hot rolled	780,042	375	27,603	5,775	27,279	15,971	686	4,415	1,992	6,553	1,960	1,718	94,330	
Bars shapes under 3 inches	174,788	551	10,803	1,764	8,279	4,236	448	3,331	409	3,167	8,285	2,378	43,651	
Concrete reinforcing bars	434,147	18	8,701	—	5,908	1,085	—	109	53	308	2,335	29,119	47,638	
Bars—Cold finished	328,419	1,218	24,134	26,206	23,737	25,807	1,547	6,689	812	2,459	1,947	1,625	118,181	
Tool steel	32,054	2,226	3,604	6,090	1,214	4,102	3,020	411	784	464	1	40	21,956	
Standard pipe	1,088,753	23	46,588	4,640	123,010	14,486	2,118	13,427	6,026	26,851	41,403	7,352	267,926	
Oil country goods	2,206,586	1	4,283	738	17,969	6,256	2,305	3,065	566	4,483	14,919	98	54,663	
Line pipe	982,969	14	1,513	905	5,791	2,390	—	3,445	1,914	2,652	11,579	15	30,218	
Mechanical tubing	283,248	7	2,231	7,163	17,096	19,127	1,092	679	2,542	12,156	1,670	356	84,119	
Pressure tubing	51,653	—	3,080	821	7,090	426	28	13	123	908	230	228	12,947	
Stainless pipe & tubing	32,186	33	295	6,896	5,589	1,260	249	55	105	381	592	6	15,481	
Pipe & tubing nonclassified	320,691	2	4,965	3,576	16,506	1,096	316	3,085	769	2,981	9,940	—	43,236	
Structural pipe & tube, sq. & rect.	475,918	—	13,404	541	20,126	3,895	735	3,659	667	15,762	15,464	598	74,871	
Wire drawn	678,367	6,779	2,479	71,937	10,976	44,506	7,903	8,096	8,630	19,370	16,094	10,069	206,839	
Wire nails	458,328	14,132	2,740	37,414	31,552	16,154	3,318	23,458	1,494	14,390	18,137	10,337	173,126	
Barbed wire	27,729	261	—	127	850	1,310	450	1,608	399	865	1,628	109	7,807	
Galvanized wire fencing	11,307	118	1	31	44	21	55	116	46	21	996	184	1,633	
Bale ties & baling wire	2,986	—	—	44	377	—	—	—	—	19	—	—	440	
Black plate	278,003	—	21,848	16,711	52,200	13,291	—	441	69	6,883	—	—	111,241	
Tin plate	355,777	—	4,477	104	21,752	8,065	—	566	763	5,462	4,008	—	45,197	
Tin free steel	104,001	—	3,593	129	12,632	4,197	—	—	6	1	6	—	20,564	
Sheets—Hot rolled	3,033,150	5	176,558	12,661	191,954	11,357	—	27,040	952	23,789	21,820	15,413	481,549	
—Cold rolled	3,594,729	8,076	302,767	96,491	301,836	30,960	500	39,748	17,627	50,180	5,133	19,352	882,670	
Sheets galvanized	2,729,504	—	92,575	28,505	218,372	17,595	701	48,014	27,319	87,196	66,317	56,941	643,535	
All other metallic coated	224,232	8	579	3,914	31,006	2,771	66	977	5,561	3,218	149	904	48,153	
Electric sheets & strip	89,324	—	9,458	520	9,631	1,288	—	19	—	12,169	1,318	—	34,403	
Strip—Hot rolled	79,591	94	4,580	176	1,887	680	—	600	17	1,394	1,997	102	11,527	
—Cold rolled	181,313	1,345	12,026	19,758	7,186	4,714	561	648	2,041	1,016	556	180	50,031	
Total Steel Mill Products	26,163,218	37,112	1,172,842	570,814	1,435,415	396,187	31,756	282,080	102,244	465,252	413,655	188,891	5,096,208	
Carbon	24,913,727	23,991	1,140,779	472,988	1,359,128	308,389	21,194	277,924	92,539	427,929	399,423	188,431	4,712,713	
Alloy	980,004	4,488	27,039	45,678	48,864	86,348	5,276	3,249	8,382	34,102	13,085	135	259,604	
Stainless	269,486	8,652	5,023	52,150	27,423	21,432	2,286	886	1,343	3,220	1,147	326	123,888	

Table 26 (continued)
Imports of Iron and Steel Products by Customs District—1984
 (Net tons)

63
IMPORTS
 Customs District

	GULF COAST-MEXICAN BORDER								
Products	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total	
Steel Mill Products									
Ingots, blooms, billets, slabs, etc.	7,865	160,879	—	28,713	3,256	1,113	—	201,826	
Wire rods	27,316	166,907	552	111,213	990	3,606	—	310,584	
Structural shapes—plain 3" & over	42,365	178,158	—	306,645	45	40,561	574	568,348	
Steel piling	121	9,957	—	15,867	—	—	—	25,945	
Plates	33,807	159,351	—	228,507	134	58,170	—	479,969	
Rails standard	64,586	12,421	—	10,166	—	—	—	87,173	
Rails other	19,831	7,917	—	2,076	—	1	—	29,825	
Joint bars and tie plates	26,095	21,625	—	5,452	—	—	—	53,172	
Track spikes	—	—	—	—	—	—	—	—	
Wheels and axles	1,442	89	—	3,486	2	—	10	5,029	
Bars—Hot rolled	4,159	82,968	—	34,972	340	2,635	354	125,426	
Bars shapes under 3 inches	473	8,937	—	12,572	—	1,218	867	24,067	
Concrete reinforcing bars	—	9,568	—	132,794	—	27,985	6,468	176,815	
Bars—Cold finished	1,193	15,854	—	25,652	499	860	11	44,069	
Tool steel	69	154	—	295	146	276	—	940	
Standard pipe	22,145	125,416	—	180,304	43	82,399	458	410,785	
Oil country goods	4,103	121,196	—	1,651,941	12,968	14,710	—	1,804,918	
Line pipe	9,642	180,262	809	486,919	—	80,557	2,438	760,627	
Mechanical tubing	238	16,145	—	83,302	1	2,332	—	102,018	
Pressure tubing	64	21,908	—	10,994	61	681	—	33,708	
Stainless pipe & tubing	—	2,110	—	6,944	24	44	—	9,122	
Pipe & tubing nonclassified	604	33,716	—	117,439	14	21,223	3	172,999	
Structural pipe & tube, sq. & rect.	10,549	48,122	—	124,063	1	2,490	—	185,225	
Wire drawn	7,996	44,143	—	21,585	427	301	1,234	75,686	
Wire nails	412	32,809	—	46,272	533	3,902	128	84,056	
Barbed wire	596	5,605	—	5,369	—	2,211	442	14,223	
Galvanized wire fencing	51	187	—	331	—	3,866	689	5,124	
Bale ties & baling wire	—	75	—	54	—	21	—	150	
Black plate	6,725	18,599	—	6,933	—	318	—	32,575	
Tin plate	647	46,567	—	6,007	—	2,510	—	55,731	
Tin free steel	813	12,577	—	2,890	—	—	—	16,280	
Sheets—Hot rolled	36,527	246,452	—	375,085	2	30,622	—	668,688	
—Cold rolled	25,007	517,748	—	267,200	775	57,717	373	868,820	
Sheets galvanized	8,230	323,780	—	389,340	39	85,847	217	807,453	
All other metallic coated	1,627	63,854	—	20,544	—	4,943	25	90,993	
Electric sheets & strip	—	4,987	—	1,125	—	—	—	6,112	
Strip—Hot rolled	14	9,492	—	5,963	—	11,212	91	26,772	
—Cold rolled	1,150	22,941	—	11,765	2	972	—	36,830	
Total Steel Mill Products	386,461	2,733,473	1,361	4,740,777	20,302	545,302	14,383	8,422,059	
Carbon	356,107	2,628,289	1,361	4,577,791	14,552	539,399	13,610	8,131,109	
Alloy	9,956	92,270	—	138,802	5,720	3,481	401	250,830	
Stainless	398	12,914	—	24,184	30	2,423	373	40,322	

Table 26 (continued)
Imports of Iron and Steel Products by Customs District—1984
(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Portland	Seattle	Total	Virgin Islands	Anchorage	Honolulu	San Juan	Total
Steel Mill Products											
Ingot, blooms, billets, slabs, etc.	45	18,668	119	1,988	1,250	22,070	—	—	978	—	978
Wire rods	4,454	200,071	84,253	4,176	55,780	348,734	—	—	—	8,074	8,074
Structural shapes—plain 3" & over	10,798	260,591	174,733	85,776	36,710	568,608	—	3,630	2,077	7,706	13,413
Steel piling	—	2,949	7,013	3,948	922	14,832	—	1,960	—	1,148	3,108
Plates	2,300	156,866	47,924	52,378	44,800	304,268	—	2,504	541	5,203	8,248
Rails standard	—	4,157	304	22,119	7,615	34,195	—	—	—	—	—
Rails other	—	702	441	3,193	237	4,573	2	—	—	—	2
Joint bars and tie plates	—	12,527	7	23,629	13,961	50,124	—	—	—	2	2
Track spikes	—	—	—	—	242	242	—	—	—	—	—
Wheels and axles	—	90	333	6	1,896	2,325	—	177	—	—	177
Bars—Hot rolled	3,772	36,186	7,773	5,568	3,386	56,685	—	861	1,000	17,081	18,942
Bars shapes under 3 inches	1,956	29,080	7,167	6,836	3,347	48,186	—	—	562	3,440	4,002
Concrete reinforcing bars	4,229	54,801	23,600	3,711	9,919	96,320	173	1,346	1,363	109,293	112,175
Bars—Cold finished	40	36,273	9,477	9,233	5,500	60,523	—	46	—	624	670
Tool steel	3	1,954	39	179	569	2,744	17	—	—	—	17
Standard pipe	19	175,434	48,968	23,480	15,311	263,212	—	2,561	2,413	11,642	16,616
Oil country goods	3,846	111,321	6,597	4,465	10,310	136,539	—	47,029	104	322	47,455
Line pipe	1,300	77,313	14,773	13,931	3,976	111,293	—	50,368	—	1,408	51,776
Mechanical tubing	—	23,017	7,249	16,531	7,391	54,188	—	974	167	1,025	2,166
Pressure tubing	—	1,067	176	181	1,087	2,511	—	1	—	65	66
Stainless pipe & tubing	—	2,664	289	1,522	213	4,688	—	—	—	20	20
Pipe & tubing nonclassified	21	23,689	8,729	10,425	5,116	47,980	—	2,844	165	8,109	11,118
Structural pipe & tube, sq. & rect.	—	42,116	26,337	27,098	11,652	107,203	—	972	392	1,812	3,176
Wire drawn	1,163	25,566	16,078	20,226	46,058	109,091	8	12	1,907	13,862	15,789
Wire nails	—	47,767	43,366	4,811	18,633	114,577	36	454	557	1,919	2,966
Barbed wire	41	1,593	1,354	799	391	4,178	—	11	158	1,140	1,309
Galvanized wire fencing	—	20	7	—	512	539	—	—	186	3	189
Bale ties & baling wire	98	1,103	977	—	126	2,304	—	—	—	84	84
Black plate	—	20,544	17,244	301	44	38,133	—	—	—	—	—
Tin plate	—	46,200	74,162	498	—	120,860	—	15	39,378	18,109	57,502
Tin free steel	—	28,047	8,227	2,578	—	38,852	—	—	—	5,785	5,785
Sheets—Hot rolled	3,414	529,758	109,826	69,350	35,094	747,442	—	5,785	529	6,723	13,037
—Cold rolled	2,864	443,484	205,979	14,609	12,047	678,983	—	—	16	6,508	6,524
Sheets galvanized	864	276,527	107,341	66,587	71,605	522,924	54	1,181	2,805	26,202	30,242
All other metallic coated	3	17,775	14,190	2,249	2,767	36,984	—	—	825	2,175	3,000
Electric sheets & strip	—	2,952	1,901	—	169	5,022	—	—	—	—	—
Strip—Hot rolled	—	18,619	948	1,085	1,274	21,926	—	—	32	176	208
—Cold rolled	163	11,308	6,146	2,088	3,989	23,694	—	—	77	2,042	2,119
Total Steel Mill Products	41,394	2,742,799	1,084,045	505,414	433,896	4,807,548	291	122,730	56,232	261,701	440,954
Carbon	41,132	2,655,260	1,071,878	482,352	419,536	4,670,158	154	120,204	56,216	257,959	434,533
Alloy	261	47,847	9,089	20,393	10,088	87,678	137	2,526	—	3,276	5,939
Stainless	—	39,692	3,078	2,669	4,272	49,711	—	—	16	486	482

Table 26 (continued)
Imports of Iron and Steel Products by Customs District—1984
(Net Tons)

65
IMPORTS
Customs District

Products	GREAT LAKES-CANADIAN BORDER												Total
	Port- land	St. Albans	Ogdens- burg	Buffalo	Great Falls	Pem- bina	Duluth Minesapls	Mil- waukee	Detroit	Chicago	Cleveland	St. Louis	
Steel Mill Products													
Ingot, blooms, billets, slabs, etc.	—	28	3,949	30,444	—	—	—	12,421	664,360	11,669	209,234	—	932,105
Wire rods	—	7,157	106,412	74,870	—	3	1,956	—	275,754	78,139	68,828	—	613,119
Structural shapes—plain 3" & over	221	13,901	16,324	118,885	178	24,243	535	18,901	125,319	69,716	36,110	—	424,333
Steel piling	—	536	2,110	635	—	51	—	5,753	6,731	4,472	619	—	20,907
Plates	157	4,183	3,703	78,837	2,425	1,258	11,142	68	219,289	137,924	36,713	28	495,727
Rails standard	111	—	4,119	4,256	11	97	1,054	—	5,577	463	518	—	16,206
Rails other	129	5,875	239	21,503	20	1,758	—	—	9,079	2,872	1,684	—	43,160
Joint bars and tie plates	302	1,365	496	1,498	—	2	113	—	619	109	5	—	4,509
Track spikes	20	80	16	—	—	52	—	—	1	—	—	—	169
Wheels and axles	124	48	530	207	1	21	2,344	24	3,941	24	808	—	8,072
Bars—Hot rolled	121	5,978	7,556	57,018	1,849	33,719	149	160	258,342	59,114	30,651	—	454,657
Bars shapes under 3 inches	17	1,057	1,140	20,404	90	215	4	1,913	23,275	6,354	411	—	54,880
Concrete reinforcing bars	12	387	164	286	23	2	—	—	308	20	—	—	1,202
Bars—Cold finished	255	1,739	1,289	21,438	—	—	1,091	348	38,570	39,820	2,423	—	106,973
Tool steel	—	65	571	939	21	852	125	3	2,352	1,237	232	2	6,399
Standard pipe	107	4,116	8,628	7,531	1,375	2,881	446	—	27,890	36,829	434	—	90,237
Oil country goods	46	517	535	36,730	30,320	1,224	1,245	—	89,785	2,435	150	35	163,022
Line pipe	52	22	23	518	4,943	2,705	5	19	12,749	6,752	966	—	28,754
Mechanical tubing	3	466	3,056	16,578	1,667	210	133	12	27,964	9,010	1,635	24	60,758
Pressure tubing	8	42	—	327	22	3	—	56	100	769	284	—	1,611
Stainless pipe & tubing	1	409	264	716	90	92	1	2	375	915	31	—	2,896
Pipe & tubing nonclassified	6	581	483	6,608	5,793	1,105	648	19	28,056	1,042	1,822	—	46,163
Structural pipe & tube, sq. & rect.	55	2,914	2,680	32,623	3,262	625	—	—	62,988	238	59	—	105,444
Wire drawn	4,190	25,967	29,092	50,638	154	26	1,282	577	67,596	82,891	7,212	937	270,962
Wire nails	1,545	14,429	16,383	10,241	56	16	1,338	95	18,194	20,314	908	82	83,601
Barbed wire	—	87	141	176	—	1	—	—	9	—	—	—	414
Galvanized wire fencing	10	4	3,065	457	—	—	—	21	235	10	20	—	3,822
Bale ties & baling wire	—	—	—	—	—	—	—	—	5	2	1	—	8
Black plate	10	—	17	1,620	—	—	—	—	26,883	43,342	24,181	—	96,053
Tin plate	5	—	573	17,504	—	—	—	—	20,317	33,762	4,323	—	76,484
Tin free steel	—	—	4	1,072	—	—	—	—	458	20,932	54	—	22,520
Sheets—Hot rolled	78	4,486	4,320	48,753	2,930	2,875	26,854	7,032	530,604	315,117	156,550	2,833	1,102,432
—Cold rolled	—	8,173	8,604	59,560	—	36	26,929	2,546	347,755	638,613	56,470	9,047	1,157,733
Sheets galvanized	98	334	227	69,567	43	—	4,202	—	461,458	142,496	46,032	975	725,432
All other metallic coated	7	62	2,408	249	—	64	172	—	7,203	28,096	5,837	1	44,099
Electric sheets & strip	—	—	41	3,804	—	—	—	—	7,779	31,256	713	194	43,787
Strip—Hot rolled	—	569	1,500	3,322	4	—	10	59	3,998	8,282	1,415	—	19,159
—Cold rolled	—	935	2,570	18,968	7	—	—	80	22,598	20,148	3,214	120	68,640
Total Steel Mill Products	7,691	106,515	233,229	818,782	55,283	74,137	81,780	50,507	3,398,515	1,855,187	700,546	14,278	7,398,450
Carbon	7,512	105,840	224,105	768,862	52,364	67,283	80,377	33,601	3,214,451	1,735,054	661,892	13,874	6,965,215
Alloy	152	183	5,071	45,339	2,819	6,761	1,386	12,650	172,619	90,745	38,196	230	376,151
Stainless	27	492	4,053	4,581	100	92	16	4,256	11,444	29,388	458	175	55,082

Table 26A
Imports of Iron and Steel Products by Customs District—1984
(Net Tons)

Products	ATLANTIC COAST												Total
	Grand Total	Boston	Providence Brdgport	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil- mington	Charles- ton	Savannah	Tampa	Miami	
Other Steel Products													
Structural shapes, fabricated.....	278,310	390	145	2,482	257	1,195	934	1,978	1,168	10,580	15,120	1,753	36,002
Shapes—Cold formed.....	1,770	62	—	90	—	—	—	—	6	18	—	7	183
Sashes and frames.....	2,785	73	—	84	27	74	—	2	3	1	1	29	294
Fence or sign posts.....	12,317	2	23	22	—	5	—	—	133	—	—	2	187
Wire—nonmetallic covered.....	1,034	22	—	71	1	94	1	—	—	2	—	5	196
Wire rope.....	147,820	3,368	90	6,793	1,689	6,225	19,389	7,487	7,380	5,578	3,872	574	82,445
Wire strand.....	184,704	1,790	598	28,997	3,889	11,681	3,732	1,662	8,547	5,756	5,374	10,246	82,272
Welded wire fabric.....	23,167	800	74	1,556	11	87	325	3	23	—	468	141	3,488
Other nails and staples.....	44,554	967	224	3,706	697	1,259	76	3,037	1,567	2,467	3,329	873	18,202
Bale ties—Strip.....	675	—	—	2	—	—	—	—	—	—	—	—	2
Bolts, nuts and rivets.....	674,880	12,380	748	99,855	12,943	57,816	5,146	5,074	3,189	30,689	8,092	4,505	240,437
Grinding balls.....	10,804	—	—	145	63	50	19	—	—	—	—	—	277
Blanks, nonrectangular flat rolled.....	13,085	48	6	1,194	1,202	430	—	—	15	—	—	—	2,895
Rigid conduit.....	3,915	2	—	599	872	33	1	—	—	1	1	—	1,509
Pipe and tube fittings.....	110,370	2,153	—	8,851	1,244	1,757	661	294	188	2,789	5,916	523	24,376
Total Other Steel Products	1,510,189	22,080	1,908	154,447	22,896	80,707	30,285	19,537	22,218	57,880	42,173	18,858	472,769
Total Steel Products	27,673,408	59,172	1,174,750	725,261	1,458,311	476,874	62,041	301,597	124,462	523,132	455,828	207,549	5,568,977
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc.....	117	—	18	2	1	—	—	—	—	—	16	—	37
Cast iron soil pipe and fittings.....	1,729	29	—	112	5	—	—	—	—	325	33	21	525
Other cast iron pipe and fittings.....	14,887	1,895	—	511	253	1,093	261	1	8	1,026	291	35	5,374
Malleable cast iron pipe fittings.....	26,276	344	—	4,709	922	3,453	45	89	—	1,550	1,018	471	12,601
Castings and forgings.....	176,234	2,953	651	22,825	4,985	13,408	5,232	2,763	1,485	7,790	742	807	63,641
Pig iron.....	702,461	—	3,702	19	116,336	—	—	—	—	12,750	—	—	132,807
Sponge iron.....	175,328	55	—	638	8,266	1,252	—	—	3	2	—	1	10,217
Ferromanganese (manganese content).....	320,790	—	859	—	13,010	34,738	—	—	—	—	—	—	48,607
Ferrosilicon (silicon content).....	96,302	—	—	119	643	7,832	63	79	641	148	—	—	9,525
Ferrochromium (chromium content).....	242,723	—	17,067	—	950	24,995	—	—	—	—	—	—	43,012
Other Ferroalloys.....	117,820	—	425	905	3,639	28,249	—	—	22	5	—	—	33,246
Total Iron Products & Ferroalloys	1,874,666	5,276	22,721	29,840	149,011	115,020	5,601	2,933	2,159	23,595	2,099	1,334	359,589
Grand Total	29,548,074	64,448	1,197,471	755,103	1,607,322	591,894	67,642	304,530	126,621	546,727	457,927	208,883	5,928,566
Iron and steel scrap.....	577,251	—	2	96	1,263	352	—	—	6	11	2,737	1,414	5,881

Table 26A (continued)
Imports of Iron and Steel Products by Customs District—1984

(Net Tons)

	GULF COAST-MEXICAN BORDER							
Products	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Other Steel Products								
Structural shapes, fabricated	6,914	8,610	1,702	25,673	19	5,785	551	49,254
Shapes—Cold formed	—	—	—	22	—	—	—	22
Sashes and frames.....	40	2	—	3	1	2	1	49
Fence or sign posts.....	—	—	—	46	1	4,572	971	5,590
Wire—nonmetallic covered.....	4	111	—	76	2	—	—	193
Wire rope	4,153	25,727	—	20,161	1	271	14	50,327
Wire strand	4,811	8,705	—	48,629	4	329	55	62,533
Welded wire fabric	49	115	—	325	—	2,850	312	3,651
Other nails and staples	346	3,760	—	4,087	118	4	25	8,340
Bale ties—Strip.....	—	—	—	17	—	—	—	17
Bolts, nuts and rivets	13,681	13,900	1	29,249	1,778	797	135	59,541
Grinding balls.....	—	5,709	—	262	—	22	—	5,993
Blanks, nonrectangular flat rolled	—	3,547	—	3,338	—	4	—	8,889
Rigid conduit	—	—	—	79	—	104	—	183
Pipe and tube fittings	2,143	5,341	20	41,918	463	382	1	50,268
Total Other Steel Products	32,141	75,529	1,723	173,885	2,388	15,122	2,064	302,852
Total Steel Products	398,602	2,809,002	3,084	4,914,662	22,690	560,424	16,447	8,724,911
Iron Products & Ferroalloys								
Bar iron, iron slabs & blooms, etc.....	—	—	—	56	1	—	—	57
Cast iron soil pipe and fittings	379	636	—	—	—	—	14	1,029
Other cast iron pipe and fittings	64	20	—	1,563	4	2	—	1,653
Malleable cast iron pipe fittings.....	74	772	—	3,383	380	232	—	4,841
Castings and forgings.....	953	16,151	14	37,857	515	1,678	3,557	60,725
Pig iron	773	314,243	—	11,910	—	4,553	—	331,479
Sponge iron	51	23,178	—	—	—	—	—	23,229
Ferromanganese (manganese content).....	22,465	165,391	—	338	—	98	243	188,535
Ferrosilicon (silicon content).....	5,621	54,030	—	4,038	—	—	—	63,689
Ferrochromium (chromium content).....	28	195,950	—	—	—	—	—	195,978
Other Ferroalloys.....	10,049	56,961	—	2,634	—	—	320	69,964
Total Iron Products & Ferroalloys.....	40,457	827,332	14	61,780	901	6,563	4,135	941,182
Grand Total	439,059	3,636,334	3,098	4,976,442	23,591	566,987	20,582	9,666,093
Iron and steel scrap	62	2,911	950	412	—	10,474	8,675	23,484

Table 26A (continued)
Imports of Iron and Steel Products by Customs District—1984
(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Portland	Seattle	Total	Virgin Islands	Anchorage	Honolulu	San Juan	Total
Other Steel Products											
Structural shapes, fabricated.....	5,740	28,509	36,155	9,607	15,578	95,589	—	23,673	174	1,074	24,921
Shapes—Cold formed.....	—	—	—	—	126	126	—	—	—	—	—
Sashes and frames.....	1	33	87	—	137	258	1	—	1	—	2
Fence or sign posts.....	6,357	38	4	21	4	6,424	—	—	13	35	48
Wire—nonmetallic covered.....	1	123	8	1	5	138	—	—	2	—	2
Wire rope.....	625	5,951	3,848	5,363	10,632	26,419	—	—	289	216	505
Wire strand.....	—	9,991	6,727	5,237	5,541	27,496	—	7	758	802	1,567
Welded wire fabric.....	919	1,186	701	41	2,550	5,397	—	—	5	1,640	1,645
Other nails and staples.....	—	8,512	2,659	318	1,210	12,699	—	6	23	595	624
Bale ties—Strip.....	—	655	—	—	—	655	—	—	—	—	—
Bolts, nuts and rivets.....	1,191	141,097	10,271	21,101	59,537	233,197	2	21	132	624	779
Grinding balls.....	—	571	—	37	132	740	—	20	—	68	88
Blanks, nonrectangular flat rolled.....	147	1,190	115	—	101	1,553	18	—	—	235	253
Rigid conduit.....	23	947	77	—	4	1,051	—	—	—	—	—
Pipe and tube fittings.....	—	9,136	1,101	5,542	2,351	18,130	—	112	56	54	222
Total Other Steel Products	15,005	207,941	61,753	47,268	97,907	429,874	20	23,840	1,453	5,342	30,655
Total Steel Products	56,399	2,950,740	1,145,801	552,682	531,803	5,237,422	311	146,570	57,685	267,043	471,909
Iron Products & Ferroalloys											
Bar iron, iron slabs & blooms, etc.....	—	20	—	—	—	20	—	—	—	—	—
Cast iron soil pipe and fittings.....	9	—	—	—	—	9	—	—	—	—	—
Other cast iron pipe and fittings.....	388	3,234	467	95	273	4,457	—	2	—	11	13
Malleable cast iron pipe fittings.....	—	5,817	297	124	1,166	7,404	—	—	—	120	120
Castings and forgings.....	3,114	7,333	8,686	682	3,290	23,105	35	—	2	208	245
Pig iron.....	—	5,949	1,183	—	8,744	15,876	—	—	—	—	—
Sponge iron.....	—	249	2	—	15	266	—	—	—	—	—
Ferromanganese (manganese content).....	—	—	14,314	6,864	1,230	22,408	—	—	—	—	—
Ferrosilicon (silicon content).....	—	—	58	75	—	133	—	—	—	—	—
Ferrochromium (chromium content).....	—	260	28	305	9	602	—	—	—	—	—
Other Ferroalloys.....	—	6,392	—	4,422	—	10,814	—	—	79	—	79
Total Iron Products & Ferroalloys	3,511	29,253	25,035	12,568	14,728	85,083	35	2	82	340	459
Grand Total	59,910	2,979,993	1,170,836	565,250	546,529	5,322,515	346	146,572	57,767	267,383	472,068
Iron and steel scrap.....	9,515	1,054	—	1	188,374	198,944	—	—	—	—	—

Table 26A (continued)
Imports of Iron and Steel Products by Customs District—1984
(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER												Total
	Port-land	St. Albans	Ogdens-burg	Buffalo	Great Falls	Pem-bina	Duluth	Mil-waukee	Detroit	Chicago	Cleveland	St. Louis	
Other Steel Products													
Structural shapes, fabricated.....	14,478	3,567	10,254	32,310	4,036	1,109	188	20	6,382	140	61	2	72,547
Shapes—Cold formed.....	—	—	985	247	—	—	—	—	189	18	—	—	1,437
Bashes and frames.....	22	38	146	1,143	2	70	92	—	615	52	5	—	2,185
Fence or sign posts.....	—	1	8	54	—	1	—	3	—	2	—	—	69
Wire—nonmetallic covered.....	168	2	13	4	—	9	61	—	171	64	13	—	505
Wire rope.....	138	160	704	502	44	29	174	—	1,301	4,811	21	238	8,122
Wire strand.....	51	170	763	615	2	—	499	—	201	8,392	104	38	10,835
Welded wire fabric.....	14	4,167	933	2,374	9	—	49	—	1,374	67	—	—	8,967
Other nails and staples.....	19	123	460	728	19	—	29	19	825	1,944	69	455	4,690
Bale ties—Strip.....	1	—	—	—	—	—	—	—	—	—	—	—	1
Bolts, nuts and rivets.....	13	2,026	14,237	12,310	229	176	609	378	43,948	55,529	10,542	926	140,923
Grinding balls.....	—	—	194	1,692	—	—	—	—	1,799	18	1	—	3,704
Blanks, nonrectangular flat rolled.....	42	58	29	155	—	—	—	—	920	262	28	1	1,495
Rigid conduit.....	—	41	54	37	—	13	1	—	18	1,005	2	—	1,171
Pipe and tube fittings.....	41	111	398	916	336	74	144	25	2,400	12,320	548	62	17,375
Total Other Steel Products	14,966	10,484	29,178	53,086	4,677	1,480	1,846	444	80,141	84,622	11,394	1,721	274,039
Total Steel Products	22,677	116,979	262,407	671,868	59,960	75,617	83,626	50,951	3,458,656	1,939,809	711,940	15,999	7,670,489
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc.....	4	—	—	—	—	—	—	—	—	—	—	—	4
Cast iron soil pipe and fittings.....	—	—	—	30	45	—	—	—	91	—	—	—	166
Other cast iron pipe and fittings.....	124	25	785	1,272	31	10	20	—	778	251	65	30	3,391
Malleable cast iron pipe fittings.....	—	—	—	264	—	—	—	—	55	785	56	148	1,308
Castings and forgings.....	149	3,262	4,267	5,874	762	1	136	24	5,969	7,238	807	29	28,518
Pig iron.....	—	1,883	1,299	407	—	—	—	74,180	55,386	46,033	41,112	—	222,300
Sponge iron.....	—	516	5,879	16,582	5	—	1	—	18,788	56,561	43,282	—	141,614
Ferromanganese (manganese content).....	—	—	104	538	—	—	—	—	23,336	28,007	9,255	—	61,340
Ferrosilicon (silicon content).....	—	—	230	6,591	—	—	—	14	6,025	1,182	8,877	36	22,955
Ferrochromium (chromium content).....	—	—	13	430	—	—	—	—	1,433	—	1,253	—	3,129
Other Ferroalloys.....	—	—	154	542	—	—	—	11	1,206	468	1,335	—	3,718
Total Iron Products & Ferroalloys	277	5,686	12,731	32,529	843	11	156	74,229	113,070	142,526	106,041	242	488,343
Grand Total	22,954	122,665	275,138	904,397	60,803	75,628	83,784	125,180	3,571,726	2,082,335	817,981	16,241	8,158,832
Iron and steel scrap.....	227	567	13,465	44,050	847	121	419	195	249,267	18,815	20,948	—	348,941

RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

Table 27
Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)										
Year	Open Hearth			Basic Oxygen Process			Electric			
	Carbon	Alloy	Total	Carbon	Alloy	Total	Carbon	Alloy	Stainless	Total
1984	7,928	408	8,336	48,399	4,423	52,822	23,591	6,006	1,772	31,369
1983	5,703	248	5,951	48,115	3,934	52,050	19,965	4,900	1,750	26,615
1982	5,642	468	6,110	41,214	4,095	45,309	17,287	4,635	1,235	23,158
1981	12,195	1,257	13,452	65,701	7,530	73,231	23,566	8,836	1,743	34,145
1980	11,844	1,210	13,054	60,532	7,083	67,615	22,313	7,152	1,701	31,166
1979	17,200	1,958	19,158	75,334	7,922	83,256	23,692	8,128	2,107	33,927
1978	19,026	2,284	21,310	75,053	8,431	83,484	22,837	7,446	1,954	32,237
1977	18,045	1,998	20,043	70,551	6,857	77,408	19,534	6,486	1,862	27,882
1976	21,426	2,044	23,470	73,588	6,330	79,918	16,994	5,934	1,684	24,612
1975	19,794	2,367	22,161	64,840	6,961	71,801	15,726	5,843	1,111	22,680
1974	32,479	3,020	35,499	74,534	7,018	81,552	19,595	6,924	2,150	28,669
1973	36,768	3,012	39,780	76,868	6,392	83,260	19,111	6,759	1,889	27,759
1972	32,036	2,900	34,936	69,231	5,353	74,584	16,431	5,726	1,564	23,721
1971	32,612	2,947	35,559	59,472	4,471	63,943	14,923	4,755	1,263	20,941
1970	44,361	3,661	48,022	58,889	4,441	63,330	14,161	4,722	1,279	20,162

Table 27 (continued)
 Raw Steel Production by Type of Furnace, Grade and Cast
 (Thousands of net tons)

	Total All Grades				Per Cent of Total						Production by Type of Cast		
					By Grade			By Type of Furnace			(Thousands of net tons)		
	Carbon	Alloy	Stainless	Total	Carbon	Alloy	Stainless	OH	BOP	Elec- tric	Ingots	Cont. Cast	Steel Cast.
1984	79,918	10,838	1,772	92,528	86.4	11.7	1.9	9.0	57.1	33.9	55,785	36,669	74
1983	73,783	9,082	1,750	84,615	87.2	10.7	2.1	7.0	61.5	31.5	57,385	27,174	56
1982	64,143	9,198	1,235	74,577	86.0	12.3	1.7	8.2	60.7	31.1	52,875	21,628	74
1981	101,462	17,623	1,743	120,828	84.0	14.6	1.4	11.1	60.6	28.3	94,516	26,138	173
1980	94,689	15,445	1,701	111,835	84.7	13.8	1.5	11.7	60.4	27.9	88,937	22,720	178
1979	116,226	18,008	2,107	136,341	85.3	13.2	1.5	14.0	61.1	24.9	113,084	23,043	215
1978	116,916	18,161	1,954	137,031	85.3	13.3	1.4	15.6	60.9	23.5	115,984	20,837	210
1977	108,130	15,341	1,862	125,333	86.3	12.2	1.5	16.0	61.8	22.2	109,416	15,728	188
1976	112,008	14,308	1,684	128,000	87.5	11.2	1.3	18.3	62.5	19.2	114,268	13,529	203
1975	100,360	15,171	1,111	116,642	86.0	13.0	1.0	19.0	61.6	19.4	105,794	10,593	255
1974	126,608	16,962	2,150	145,720	86.9	11.6	1.5	24.3	56.0	19.7	NOT AVAILABLE		200
1973	132,747	16,163	1,889	150,799	88.0	10.7	1.3	26.4	55.2	18.4			177
1972	117,698	13,979	1,564	133,241	88.3	10.5	1.2	26.2	56.0	17.8			136
1971	107,007	12,173	1,263	120,443	88.8	10.1	1.1	29.5	53.1	17.4			146
1970	117,411	12,824	1,279	131,514	89.3	9.7	1.0	36.5	48.2	15.3			162

Table 28
Raw Steel Production by States
(Thousands of net tons)

States	1984	1983 ^R	1982 ^R	1981	1980
New York.....	515	1,305	1,419	3,147	2,675
Pennsylvania.....	14,372	13,000	10,905	24,066	23,517
R.I., Conn., N.J., Del., Md.	5,134	3,985	4,063	5,777	5,161
Va., W. Va., Ga., Fla., N.C., S.C., La.	6,320	5,277	4,921	6,497	6,066
Kentucky.....	2,332	1,841	1,422	2,397	2,141
Ala., Tenn., Miss., Ark.	2,582	1,470	1,506	3,585	3,452
Ohio.....	15,438	14,586	12,181	18,096	16,100
Indiana.....	19,793	20,202	16,499	22,652	19,820
Illinois.....	6,504	5,410	5,091	9,105	8,961
Michigan.....	7,754	7,262	6,075	8,943	7,877
Texas.....	4,790	3,846	4,822	+	+
Minn., Mo., Okla., Nebr., Iowa.....	2,416	2,137	1,321	9,068	8,642
Ariz., Col., Utah, Wash., Ore., Hawaii.....	4,126	3,161	3,035	4,842	4,795
California.....	452	1,132	1,317	2,653	2,628
Total.....	92,528	84,615	74,577	120,828	111,835

+ Included with Minn., Mo., Okla., Nebr., Iowa.

Table 29
Monthly and Quarterly Raw Steel Production and Capability Utilization
(Thousands of net tons)

Periods	1984		1983		1982		1981		1980	
	Net Tons	Capability Utilization*	Net Tons	Capability Utilization*	Net Tons	Capability Utilization*	Net Tons	Capability Utilization*	Net Tons	Capability Utilization*
January.....	7,970	69.6	5,570	43.4	7,737	59.3	10,590	79.9	10,701	82.7
February.....	6,142	76.0	5,676	49.0	7,178	60.9	10,028	83.7	10,332	85.3
March.....	9,056	79.1	7,127	55.5	8,049	61.7	11,745	88.6	11,439	88.4
1st Quarter.....	25,057	74.6	18,382	49.3	22,970	60.7	32,363	84.1	32,472	85.4
April.....	8,997	80.8	7,292	58.9	7,006	55.2	11,243	87.7	10,658	83.0
May.....	9,174	79.8	7,412	57.9	6,678	50.9	11,423	86.2	9,226	69.6
June.....	7,945	71.4	6,993	56.5	6,050	47.7	10,452	81.5	7,501	58.4
2nd Quarter.....	26,116	77.4	21,726	57.8	19,711	51.2	33,068	85.0	27,385	70.3
First 6 months.....	51,354	76.2	40,109	53.6	42,681	55.9	65,431	84.5	59,857	77.8
July.....	7,460	65.3	6,921	54.3	5,719	43.8	10,160	77.6	6,796	53.1
August.....	6,915	60.5	7,020	55.1	5,538	42.4	10,120	77.3	7,018	54.4
September.....	6,378	57.7	7,134	57.8	5,299	41.9	9,618	75.9	7,767	62.6
3rd Quarter.....	20,752	61.2	21,076	55.7	16,555	42.7	29,898	76.9	21,581	56.8
9 months.....	72,054	71.1	61,386	54.5	58,367	50.7	95,329	82.0	81,438	70.8
October.....	6,703	58.4	7,692	60.2	5,262	40.2	9,003	68.7	9,442	72.2
November.....	6,422	57.8	7,263	58.7	4,546	35.9	7,962	62.8	10,057	79.5
December.....	6,013	52.4	6,991	54.7	4,456	34.0	7,671	58.6	10,180	77.8
4th Quarter.....	19,137	56.2	21,946	57.9	14,264	36.7	24,636	63.4	29,679	76.5
Second 6 Months.....	39,890	58.7	43,022	56.8	30,820	39.7	54,534	70.2	51,260	66.8
Year †.....	92,528	68.4	84,615	56.2	74,577	48.4	120,828	78.3	111,835	72.8

*Raw steel production capability varies in each calendar quarter and aggregated 153.7, 154.3, 154.0, 150.6 and 135.3 million net tons for the full years 1980, 1981, 1982, 1983 and 1984 respectively.

†Revised totals include adjustments not shown in monthly figures.

PIG IRON AND FERROALLOYS

Table 30
Blast Furnace Production

Including Direct Castings and Ferroalloys
 (Thousands of Net tons)

Year	Basic	Low			Malleable	All Other	Total
		Bessemer	Phosphorus	Foundry			
1984	51,108	—	27	199	570	—	51,904
1983	48,132	—	27	130	417	—	48,706
1982	42,604	—	58	239	377	33	43,303
1981	71,166	56	132	1,221	929	66	73,570
1980	66,964	39	72	713	799	134	68,721
1979	84,047	12	44	1,591	1,003	306	87,003
1978	84,497	295	110	1,856	471	450	87,679
1977	78,196	254	122	1,610	690	454	81,328
1976	82,894	1,150	112	1,489	800	425	86,870
1975	75,911	1,087	140	1,321	814	650	79,923

Table 31
Pig Iron Consumption and Sales

(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking*	Total
1984	65,251	1,499	66,750
1983	45,783	868	46,651
1982	42,013	777	42,790
1981	70,858	3,055	73,913
1980	66,111	2,794	68,905
1979	83,307	3,984	87,291
1978	83,571	4,148	87,719
1977	77,141	3,711	80,852
1976	82,039	4,322	86,361
1975	72,837	4,115	76,952

*Includes sales for use outside the steel industry.

Table 32
Pig Iron Shipments Other than for Own Use

(Thousands of net tons)

Year	Basic	Bess. & Low. Phos.	Foundry	Malleable and Silvery	Total	Incl. in Total	
						Hot Metal	Cold Metal
1984	1,149	28	35	552	1,764	505	1,259
1983	169	38	—	451	658	405	253
1982	154	71	20	323	568	300	268
1981	337	119	109	663	1,228	853	375
1980	301	183	125	597	1,206	648	558
1979	538	279	227	811	1,855	1,152	703
1978	677	413	210	799	2,099	1,287	812
1977	663	533	173	737	2,106	1,144	962
1976	530	439	356	836	2,161	1,160	1,001
1975	488	379	291	752	1,910	981	929

Table 33
Production of Ferroalloys

(Thousands of net tons)

	1984 ^P	1983 ^R	1982	1981	1980
Ferromanganese.....		86	119	193	189
Silicomanganese.....	(142	54	69	173	188
Ferrosilicon (a).....	447	437	376	680	686
Ferrochrome.....	27	20	92	165	184
Other Chrome (b).....	14	16	27	62	54
Other Ferroalloys (c).....	150	142	155	220	246
Total.....	780	755	838	1,493	1,547

Table 34
Ferroalloy Imports for Consumption

(Thousands of net tons)

	1984 ^P	1983 ^R	1982	1981	1980
Ferromanganese.....	407	347	493	671	609
Silicomanganese.....	139	140	62	129	75
Ferrosilicon (a).....	171	187	102	184	92
Ferrochrome.....	420	280	141	428	297
Other Chrome (b).....	13	5	8	15	9
Other Ferroalloys (c).....	55	50	37	88	67
Total.....	1,206	1,009	843	1,515	1,149

(a) Ferrosilicon includes Silicon Metal.

(b) Other Chrome includes Ferrochrome—silicon and chromium metal.

(c) Other Ferroalloys include Ferrophosphorus and all other ferroalloys not listed.

Source: Compiled by the Ferroalloys Association from Bureau of Mines and Bureau of Census reports.

Table 35
Materials Used by Blast Furnaces in Manufacture of Iron
(Pig and Molten) in 1984

Products	Thousands of net tons	Net Tons per ton of iron produced
Ore:		
Iron ore (incl. manganiferous and block)	1,371	0.026
Manganese ore (incl. ferruginous manganese)	66	0.001
Agglomerated products (sinter, pellets, etc.)	77,656 (a)	1.496
Total ores and agglomerated products consumed	79,093	1.523
Less flue dust and sludge produced	664	0.013
Net—Ores & agglomerated products consumed	78,429	1.510
Scrap:		
Total scrap consumed	2,887	0.056
Less produced at blast furnaces & auxiliary units	353	0.007
Net—scrap consumed	2,534	0.049
Mill cinder, roll scale, etc.	1,925	0.037
Limestone, dolomite, other flux materials (b)	7,803	0.150
Coke:		
Total coke consumed in blast furnaces	28,270	0.545
Less coke breeze (dust) recovered	877	0.017
Net—Coke consumed	27,393	0.528

(a) Includes production at or near mine site and at other locations.

(b) Based on total limestone and dolomite charged directly into blast furnaces,
 plus tonnage consumed in the production of agglomerates.

**BASIC MATERIALS USED IN THE PRODUCTION OF IRON
AND STEEL PRODUCTS**

Table 36
Consumption of Coal
(Thousands of net tons)

Year	In Production of		Other Purposes	Total
	Coke	Steam*		
1984	35,815	2,368	212	38,395
1983	30,549	2,280	153	32,982
1982	34,130	2,297	179	36,606
1981	53,565	2,675	293	56,533
1980	58,446	2,602	409	61,457
1979	69,437	2,006	245	71,688
1978	64,562	2,633	285	67,480
1977	69,806	3,048	281	73,135
1976	77,027	2,748	296	80,071
1975	75,515	2,737	364	78,616

*Includes coal consumed in generating electric power.

Table 37
Consumption of Fluxes
(Thousands of net tons)

Use	Fluorspar	Limestone	Lime	Other Fluxes	Total
1984					
In agglomerated products	...	4,318	...	...	4,318
In blast furnaces	...	3,485	...	...	3,485
In steelmaking furnaces:					
Open hearth	28	314	77	129	548
Basic oxygen process	157	434	3,071	555	4,217
Electric	65	172	1,010	109	1,356
Total	250	8,723	4,158	793	13,924
1983	194	8,190	4,336	652	13,372
1982	268	7,296	4,189	520	12,273
1981	428	13,366	7,340	737	21,871
1980	414	13,545	6,446	780	21,185
1979	562	18,522	8,190	1,165	28,439

Table 38
Production, Receipts, Consumption and Shipments of Coke
(Thousands of net tons)

	1984	1983	1982 ^a	1981	1980
Production:					
Metallurgical	25,271	22,466	24,518	37,627	41,845
Other Coke	386	244	227	490	283
Total Production	25,657	22,710	24,745	38,117	42,128
Receipts, incl. imports	5,163	4,161	2,704	5,614	4,103
Total Production and Receipts	30,820	26,871	27,449	43,731	46,231
Consumption:					
Blast furnaces	27,394	26,268	23,322	40,451	39,146
Foundries	...	...	73	...	49
Other	192	147	49	95	81
Total Consumption	27,586	26,415	23,444	40,546	39,276
Shipments to outside companies	2,280	3,038	1,042	2,833	4,232
Total Consumption and Shipments	29,866	29,453	24,486	43,379	43,508

Table 39
Iron Ore Receipts and Consumption
1984

(Thousands of net tons)

	Original Source of Iron Ore						Total Iron Ore
	United States			Canada		All Other Foreign Countries	
	Great Lakes (a)	Southern (b)	Western (c)	Great Lakes (d)	Eastern (e)		
Receipts at plants	50,950	1,574	136	—	11,364	8,650	72,667
Consumption in:							
Blast furnaces	46,618	1,601	72	33	9,727	3,610	61,661*
Steel producing furnaces	124	—	54	—	45	193	419
Agglomerating plants (f)	2,180	—	124	86	3,528	5,641	11,559
Total Consumption	48,923	1,601	250	119	13,301	9,445	73,639

(a) Michigan, Minnesota, Wisconsin.

(b) Florida, Alabama, Georgia, Missouri, New Mexico, Tennessee, Texas, Virginia.

(c) California, Nevada, Utah, Wyoming, Colorado, Montana, Washington.

(d) Ontario

(e) Quebec, Newfoundland, Nova Scotia, Labrador, New Brunswick, Prince Edward Island.

(f) Represents plants at other than mine locations.

*Includes 60,290,000 N.T. of agglomerates produced at or near mine site.

May not add due to rounding.

Table 40
Imports of Iron Ore By Countries of Origin
(Thousands of gross tons)

Country	1984 ^P	1983 ^R	1982	1981	1980	1979	1978	1977	1976	1975
Australia	—	—	—	—	*	183	264	305	617	803
Brazil	2,542	1,276	972	1,738	1,995	3,095	3,979	2,243	5,388	7,526
Canada	11,161	8,832	9,281	18,845	17,311	22,602	19,236	25,283	24,962	19,111
Chile	—	—	47	342	322	245	390	566	608	931
Liberia	1,745	1,732	2,399	2,160	1,590	2,190	2,170	1,791	2,153	2,496
Peru	7	*	35	77	193	456	818	1,021	716	1,551
Sweden	84	68	71	87	33	171	256	154	441	182
Venezuela	1,588	1,333	1,643	5,071	3,602	4,564	6,083	6,179	9,001	13,137
Other	33	5	53	8	12	270	420	363	504	1,005
Total	17,160	13,248	14,501	28,328	25,058	33,776	33,616	37,905	44,390	46,742

*Less than 500 tons.
Source: Bureau of Mines

Table 41
Iron Ore Shipments Destined for Great Lakes
(Thousands of gross tons)

Loading Docks	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Superior	11,150	8,668	7,958	10,669	10,146	13,674	12,515	7,742	6,145	6,609
Duluth	7,764	6,560	5,982	13,071	13,263	15,039	13,568	10,587	14,050	14,385
Two Harbors	6,805	8,336	4,478	9,996	10,010	11,124	9,477	3,201	7,506	8,557
Marquette	4,529	3,509	1,934	5,342	5,721	5,332	6,003	3,990	5,436	4,588
Escanaba	8,670	7,366	5,319	8,743	9,724	11,816	11,434	7,890	10,061	9,383
Silver Bay	3,628	2,717	2,124	6,351	4,399	8,267	9,610	4,449	9,694	8,971
Taconite Harbor	3,399	3,861	3,624	7,643	6,097	9,467	8,752	3,501	10,254	10,114
Michipicoten (Canada)	...	...	...	...	...	...	...	...	74	30
Depot Harbor (Canada)	...	...	...	...	...	227	675	573	622	662
Little Current (Canada)	...	...	...	...	...	...	306	608	375	496
Pictou (Canada)	...	...	...	...	...	...	43	598	451	272
Thunder Bay (Canada)	949	1,397	795	1,212	2,679	3,801	4,395	4,695	4,127	3,976
Point Noire (Canada)	5,010	4,670	2,477	4,887	4,319	5,149	3,608	5,108	5,053	2,989
Port Cartier (Canada)	1,457	...	1,126	2,084	1,716	2,685	2,592	3,842	4,834	2,968
Seven Islands (Canada)	3,809	4,068	2,635	4,891	4,555	5,473	5,918	10,166	7,965	6,267
Total	57,170	51,152	38,452	74,889	72,629	92,054	88,896	67,050	86,647	80,267

Source: American Iron Ore Association

Table 42
Agglomerated Products

(Thousands of net tons)

	1984	1983	1982	1981	1980
Materials Used:					
Ore fines and concentrates.....	67,417	56,856	49,441	112,006	88,056
Flue dust and sludge.....	947	980	900	1,699	2,065
Scale.....	2,403	2,881	2,455	3,683	3,464
Coke breeze.....	827	885	984	1,434	1,416
Coal.....	198	346	255	341	171
Cinder and slag.....	1,495	1,621	1,800	2,825	2,206
Limestone and dolomite.....	4,318	4,304	3,908	6,368	6,106
Other.....	1,474	1,445	1,419	1,500	1,417
Total Materials Used.....	79,079	69,318	61,182	129,856	104,904
Produced From Above Materials:					
Pellets.....	47,958	35,543	31,917	68,381	61,305
Sinter, briquettes, nodules and other.....	18,934	18,094	18,093	28,956	27,886
Total Production.....	66,892	53,637	50,010	97,337	89,191
Receipts of Foreign Production:	9,427	7,451	7,195	15,215	12,743
Consumed In:					
Blast Furnaces:					
Pellets.....	58,749	54,297	47,760	80,864	72,379
Sinter, briquettes, nodules and other.....	18,907	18,327	17,638	27,445	27,899
Total.....	77,656	72,624	65,398	108,309	100,278
Steelmaking Furnaces—					
Pellets.....	56	45	115	157	183
Sinter, briquettes, nodules and other.....	37	14	4	4	2
Total.....	93	59	119	161	185
Total Consumption.....	77,749	72,683	65,517	108,470	100,463

Table 43
Scrap—Stocks, Production, Receipts, and Consumption
By Manufacturers of Pig Iron, Raw Steel and Castings

(Thousands of net tons)

Year	Stocks On Hand Beginning of Year	Produced	Received*	Consumed	Shipped, Transferred or Otherwise Disposed	Stocks On Hand End of Year
1984 ^P	4,953	29,524	40,191	66,083	3,331	5,254
1983 ^R	5,807	23,875	28,246	48,996	3,979	4,953
1982 ^R	7,130	23,518	22,503	43,698	3,646	5,807
1981	6,943	38,424	35,270	68,343	5,164	7,130
1980	7,427	36,885	34,676	66,557	5,488	6,943
1979	6,930	45,376	37,955	77,190	5,644	7,427
1978	7,684	44,920	35,651	76,294	5,031	6,930
1977	8,589	42,412	31,765	69,301	5,781	7,684
1976	7,581	43,464	31,860	68,427	5,889	8,589
1975	6,940	40,060	27,919	62,836	4,502	7,581

*Includes scrap received from other plants within the same company.
Source: Bureau of Mines.

Table 44
Scrap Consumption by Grade
(Thousands of net tons)

	1984 ^a	1983 ^a
Carbon steel:		
Low phosphorous plate and punchings	325	318
Cut structurals and plate	1,371	1,433
No. 1 heavy melting steel	17,475	15,871
No. 2 heavy melting steel	2,973	2,674
No. 1 and electric furnace bundles	7,945	7,648
No. 2 and all other bundles	1,081	1,003
Turnings and borings	963	844
Slag scrap (Fe content)	3,065	3,072
Shredded or fragmentized	3,218	2,280
No. 1 busholing	1,368	1,299
All other carbon steel scrap	7,401	7,442
Total Carbon Steel	47,185	43,884
Stainless steel	1,016	973
Alloy steel (excl. stainless)	1,314	1,131
Iron scrap	1,776	1,784
Other grades or types of scrap	1,084	1,225
Total Scrap	52,375	48,996

Source: Bureau of Mines.

Data may not add to totals due to rounding.

Table 45
Consumption of Scrap and Pig Iron
By Types of Furnaces

(Thousands of net tons)

Year	Type of Furnace	Consumed		
		Scrap	Pig Iron	Total
1984	Open hearth	3,685	5,785	9,450
	Basic oxygen process	18,083	44,595	60,678
	Electric	29,391	19	29,409
	Cupola	50	120	170
	Direct castings	—	473	473
	Blast	2,570	—	2,570
	Other (incl. air furnace)	596	252	848
	Total	52,375	51,223	103,598
1983 ^a	Open hearth	3,275	3,918	7,193
	Basic oxygen process	16,219	44,330	60,549
	Electric	25,788	52	25,838
	Cupola	6	100	106
	Direct castings	—	519	519
	Blast	3,125	—	3,125
	Other (incl. air furnace)	585	72	657
	Total	48,996	48,991	97,987
1982	Open hearth	3,554	3,632	7,186
	Basic oxygen process	14,059	36,553	52,612
	Electric	22,766	210	22,976
	Cupola	37	128	165
	Direct castings	—	647	647
	Blast	2,648	—	2,648
	Other (incl. air furnace)	634	111	745
	Total	43,996	43,281	86,979
1981	Open hearth	7,450	8,862	16,312
	Basic oxygen process	23,278	62,162	85,440
	Electric	32,467	280	32,727
	Cupola	37	175	212
	Direct castings	—	1,344	1,344
	Blast	4,046	—	4,046
	Other (incl. air furnace)	1,065	208	1,273
	Total	68,343	73,011	141,354
1980	Open hearth	7,398	8,600	15,998
	Basic oxygen process	21,859	56,414	78,273
	Electric	32,673	529	33,202
	Cupola	114	117	231
	Direct castings	—	1,188	1,188
	Blast	3,651	—	3,651
	Other (incl. air furnace)	882	266	1,128
	Total	66,857	67,114	133,971

Source: Bureau of Mines.

^aIncludes slag scrap.

Table 46
Consumption of Electric Power
(Millions of kilowatt hours)

Year	Generated	Purchased	Total
1984	6,763	49,314	56,077
1983	5,922	36,473	42,395
1982	6,664	34,103	40,767
1981	8,511	48,997	57,508
1980	8,744	43,585	52,329

Table 47
Consumption of Oxygen

(Millions of cubic feet in gaseous form)

	1984	1983	1982	1981	1980
Purchased	162,388	145,325	132,659	204,081	192,264
Produced (a)	14,049	12,415	13,686	23,615	22,182
Total	176,437	157,740	146,345	227,696	214,446
Used in:					
Conditioning	9,020	9,064	8,106	14,143	13,161
Scrap preparation	1,013	930	922	1,298	1,635
Other burning and welding	4,542	3,146	3,065	5,439	4,273
Blast furnaces	24,271	16,223	16,057	24,278	23,007
Steelmaking:					
Open hearth	15,869	8,566	9,478	21,701	20,626
Basic oxygen process	101,921	99,608	89,809	139,549	130,906
Electric	12,323	9,682	8,453	13,001	11,485
Total Steelmaking	130,113	117,856	107,740	174,251	163,017
Maintenance and construction	609	1,099	1,236	1,074	866
All other	6,869	9,423	9,219	7,213	8,487
Total	176,437	157,740	146,345	227,696	214,446

(a) Produced on companies owned or leased facilities.

NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 48
Consumption of Fuels

Year	Purpose					Total
	Blast Furnace Area		Steel Melting Furnaces	Heating and Annealing Furnaces	Other	
	Blast Furnaces	Other Uses*				
Fuel Oil (Thousand of gallons)						
1984	131,437	6,982	54,339	56,379	72,763	321,900
1983	123,709	16,212	64,081	84,436	142,637	431,075
1982	111,971	9,509	59,484	94,393	99,122	374,479
1981	277,997	4,045	114,536	125,295	126,311	648,184
1980	298,647	10,768	101,923	151,777	137,230	700,345

* Includes coke oven underfiring.

Tar and Pitch (Thousands of gallons)						
1984	8,952	...	15,690	...	...	24,642
1983	7,243	...	11,831	...	969	20,043
1982	21,317	...	19,758	...	3,485	44,560
1981	27,753	...	14,196	12,687	4,546	59,182
1980	41,328	...	49,835	...	1,759	92,922

Liquid Petroleum Gas (Thousands of gallons)						
1984	†	†	†	355	1,496	1,851
1983	†	†	†	558	1,624	2,182
1982	†	†	†	1,300	3,096	4,396
1981	†	†	†	2,606	3,720	6,326
1980	†	†	†	2,506	3,388	5,894

† Included with "Other"

Table 48 (continued)
Consumption of Fuels

Year	Purpose					Total
	Blast Furnace Area		Steel Melting Furnaces	Heating and Annealing Furnaces	Other	
	Blast Furnaces	Other Uses				
Natural Gas						
(Millions of cubic feet—based on 1,000 B.T.U. per cubic foot)						
1984	29,235	10,542*	20,688	228,082	102,676	391,223
1983	19,061	14,700*	19,310	216,262	109,718	379,051
1982	19,160	22,150*	20,530	219,371	130,134	411,345
1981	26,398	43,689*	34,936	339,527	168,665	613,215
1980	20,962	30,697*	32,481	317,432	158,740	580,312

* Includes coke oven underfiring.

Coke Oven Gas (Millions of cubic feet—based on 500 B.T.U. per cubic foot)						
1984	17,185	163,465*	1,897	105,554	105,461	393,562
1983	8,463	150,466*	28	103,950	75,972	338,879
1982	7,106	168,798*	1,796	123,357	109,613	410,670
1981	10,990	247,417*	4,725	195,210	163,094	621,436
1980	14,302	268,114*	5,885	208,499	174,599	671,399

* Includes 214,946 coke oven underfiring in 1980, 200,911 in 1981, 128,211 in 1982, 110,782 in 1983, and 130,211 in 1984.

Blast Furnace Gas (Millions of cubic feet—based on 95 B.T.U. per cubic foot)						
1984	873,752	674,791*	1,386	41,243	793,539	2,384,711
1983	844,815	602,573*	1,386	25,139	720,452	2,194,365
1982	796,165	576,485*	6,173	32,651	724,956	2,136,430
1981	1,238,051	886,145*	10,200	66,265	1,135,731	3,336,392
1980	1,141,893	727,414	10,051	62,506	1,224,859	3,166,723

* Includes coke oven underfiring.

Table 49
Imports for Consumption of Manganese Ore by Countries of Origin
(35 Percent or More Mn)*

(MN content—Net tons)

Country	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Australia	21,005	15,118	18,842	47,842	106,043	55,316	32,598	13,834	117,367	86,542
Brazil	34,748	39,112	2,962	38,909	33,648	51,890	52,095	111,639	161,108	307,367
Gabon	66,135	85,509	23,156	90,629	79,858	48,119	126,962	245,221	269,698	244,795
Mexico	16,428	25,598	1,492	25,813	22,384	2,060	18,355	34,882	18,485	23,172
Morocco	39	20	4,996	11	2,843	10,719	14,522	17,070	18,687	...
Republic of South Africa	17,286	12,703	57,872	97,536	86,373	41,475	NA	16,882	60,963	92,210
Zaire	...	...	...	...	...	...	13,231	14,700	2,937	11,444
Other Countries	...	...	1,734	...	...	22,460	9,472	...	...	...
Total	155,642	178,060	111,054	300,740	331,148	231,808	267,235	454,228	649,245	765,530

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Data may not add due to rounding.

Source: Bureau of Mines, Department of Interior.

CANADIAN STATISTICS

Table 50
Income, Dividends, Return on Sales and Stockholders' Equity

(Millions of Canadian dollars)
(Reported by companies comprising 80% of Canadian Raw Steel Production)

	1984 ^P	1983 ^H	1982
Statement of Income:			
Revenues:			
Sales (Net billing value of products shipped and other services)	\$5,711.9	\$4,691.3	\$4,671.7
Interest, dividends and other income	49.1	11.6	25.8
Total Revenue	5,761.0	4,702.8	4,697.5
Costs Applied to Billings and Other Services:			
Employment Costs:	1,425.0	1,259.3	1,259.2
Materials, supplies, freight and other services, etc.	3,589.1	3,058.5	3,110.6
Depreciation, depletion and amortization	267.6	245.5	242.7
Interest and other financial costs	171.4	172.6	153.0
Taxes other than income	22.3	21.6	31.1
Taxes on income	88.7	(41.8)	(81.7)
Loss or (gain) on discontinued operations and sales of assets (a)	...	...	5.5
Unusual items	(.9)	.4	...
Total Costs	5,563.2	4,716.1	4,720.4
Extraordinary & other items net of taxes	(51.6)	...	...
Net Income	\$ 146.2	\$ (13.3)	\$ (22.9)
Percent Cent Return on Sales	2.5	(0.3)	(0.5)
Percent Return on Stockholders' Equity (b)	4.1	(0.4)	N.A.
Cash Dividends Declared	\$ 146.3	\$ 140.8	\$ 162.9
Employees	44,600	42,300	N.A.

(a) Includes only pretax (gains) or losses which were separately disclosed in annual financial statements to stockholders.

(b) Based on stockholders' equity as of Dec. 31 of the prior year.

Totals do not necessarily add due to rounding.

Table 51
Balance Sheet

(Millions of Canadian dollars)
(Reported by companies comprising 80% of Canadian Raw Steel Production)

Assets	1984 ^P	1983 ^R	1982
Current Assets:			
Cash and marketable securities	\$ 355.4	\$ 458.3	\$ 250.2
Receivables, less allowances	806.1	691.2	539.3
Inventories	1,746.1	1,528.5	1,595.0
Other Current Assets	13.6	13.6	12.0
Total Current Assets	2,921.2	2,691.6	2,396.5
Long term receivables and other investments	280.4	307.8	33.9
Fixed assets:			
Property, plant and equipment	6,808.5	6,733.2	6,651.9
Less—Depreciation, depletion and amortization	3,045.7	2,801.4	2,573.7
Net Fixed Assets	3,762.8	3,931.8	4,078.2
Other assets	81.3	13.4	14.7
Total Assets	\$7,045.7	\$6,944.6	\$6,823.3
Liabilities and Stockholders' Equity			
Current Liabilities:			
Accounts Payable	\$ 706.4	\$ 677.6	*
Accrued taxes, including income taxes	129.1	97.6	\$ 57.1
Long-term debt maturing within one year	43.3	33.7	29.1
All other current liabilities	60.3	181.8	627.2
Total Current Liabilities	939.1	990.7	713.4
Long-term debt less amount maturing within one year	1,529.3	1,447.9	1,478.4
Other long-term liabilities and reserves	842.4	860.7	924.5
Redeemable preferred stock	71.6	73.8	N.A.
Stockholders' Equity:			
Preferred stock	801.8	806.4	941.4
Common stock	661.6	549.8	379.4
Income reinvested in business	2,199.9	2,215.3	2,386.2
Total Stockholders' Equity	\$3,663.3	\$3,571.5	\$3,707.0
Total Liabilities and Stockholders' Equity	\$7,045.7	\$6,944.6	\$6,823.3

*Included in All Other Current Liabilities.

Table 52
Production of Pig Iron and Ferroalloys
(Net tons)

Year	Pig Iron			Ferroalloys	Total
	Basic	All Other	Total		
1984	N/A	N/A	10,629,765	221,800	10,851,565
1983	N/A	N/A	9,442,986	195,700	9,638,686
1982	8,226,969	591,595	8,818,564	203,378	9,021,942
1981	9,929,454	810,804	10,740,258	310,685	11,050,943
1980	11,040,417	966,650	12,007,067	318,901	12,325,968
1979	11,464,845	556,588	12,021,433	192,462	12,213,895
1978	10,486,271	909,717	11,395,988	265,042	11,661,030
1977	10,030,103	619,244	10,649,347	213,140	10,862,487
1976	10,104,675	698,554	10,803,229	247,997	11,051,226
1975	9,466,064	620,079	10,086,143	176,359	10,262,502

Source: Statistics Canada.

Table 53
Materials Consumed by Blast Furnaces in the Production of Pig Iron

Year	Net Tons			Consumption per Ton of Pig Iron		
	Ore, Cinder, etc.	Limestone	Coke	Ore, Cinder, etc.	Limestone	Coke
1984	16,787,673	173,327	5,131,838	1.579	0.016	0.483
1983	14,697,218	215,006	4,414,226	1.556	0.023	0.467
1982	13,610,281	193,297	4,139,690	1.543	0.022	0.469
1981	15,817,001	250,426	4,552,753	1.473	0.024	0.424
1980	17,372,626	345,971	5,343,851	1.447	0.029	0.445
1979	18,601,580	469,846	5,458,170	1.547	0.039	0.454
1978	17,215,864	430,699	4,925,123	1.511	0.038	0.432
1977	15,490,321	361,054	4,798,210	1.455	0.034	0.451
1976	15,098,856	818,426	5,131,274	1.398	0.076	0.475
1975	14,161,402	963,125	4,951,237	1.404	0.095	0.491

Source: Statistics Canada.

Table 54
Raw Steel Production
(Net tons)

Year	Open Hearth	Basic Oxygen Process	Electric	Total	Steel for Castings*	Alloy Steel Incl. in Total	Continuous Cast Incl. in Total
1984	**	11,832,642	4,225,487	16,058,129	144,804	1,565,742	6,225,060
1983	1,014,966	9,364,829	3,650,893	14,030,488	114,752	1,023,272	5,292,981
1982	1,814,266	7,989,644	3,161,669	12,965,579	120,257	1,137,866	4,293,022
1981	2,203,771	9,567,252	4,363,641	16,134,664	191,747	1,829,032	5,258,275
1980	3,583,430	9,669,217	4,275,473	17,528,120	239,495***	2,231,062	4,489,581
1979	3,632,219	10,048,152	4,042,636	17,723,007	246,203	2,458,253	3,518,894
1978	3,338,969	9,274,452	3,809,307	16,422,728	187,936	2,039,373	3,319,119
1977	3,174,390	8,766,492	3,084,991	15,025,873	164,353	1,864,649	2,390,965
1976	3,275,098	8,758,757	2,615,367	14,649,222	183,563	1,754,172	1,860,001
1975	3,394,143	8,052,297	2,911,028	14,357,468	239,312	1,437,835	1,917,059

*Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.

**Included in Basic Oxygen.

***Included in total 1980 and prior years.

Source: Statistics Canada.

Table 55
Net Shipments of Rolled Steel Products
(Net tons)

Products	1984	1983	1982	1981	1980
Ingots and semifinished shapes.....	594,400	824,174	578,736	1,098,708	897,005
Rails and heavy structural shapes*.....	573,348	505,527	454,257	925,608	862,691
Wire rods.....	1,199,146	1,129,709	989,851	1,088,166	1,363,294
Structural shapes intermediate**.....	324,346	287,179	238,106	391,404	458,798
Bar sized shapes.....	181,368	140,442	127,372	182,561	177,693
Concrete reinforcing bars.....	523,279	580,257	598,187	750,665	843,294
Other hot rolled bars.....	1,208,846	937,983	830,121	1,126,657	1,105,299
Tie plates and track material.....	75,271	55,080	63,033	74,934	87,256
Plates (Incl. plates for pipe & tube).....	1,635,150	1,118,416	1,237,498	1,987,162	1,954,672
Hot rolled sheets & strip.....	3,047,059	2,328,771	2,203,371	2,506,978	2,557,134
Cold finished bars.....	135,967	99,227	75,258	104,763	108,224
Cold reduced sheets and strip, cold rolled other.....	2,061,483	1,966,885	1,884,419	1,941,128	2,037,874
Galvanized sheets.....	1,182,101	1,046,692	1,025,365	1,047,999	1,099,256
Total net shipments.....	12,741,784	11,020,342	10,305,574	13,226,733	13,552,490

Source: Statistics Canada

*Prior to 1980, included only rails.

**Prior to 1980, included structural shapes and piling.

Table 55 (continued)
Net Shipments of Rolled Steel Products
(Net tons)

Products	1979	1978	1977	1976	1975
Ingots and semifinished shapes.....	551,343	671,919	640,276	490,926	399,575
Rails and heavy structural shapes*.....	380,919	290,724	350,446	388,751	371,546
Wire rods.....	1,257,889	1,100,126	863,872	804,085	630,822
Structural shapes intermediate**.....	919,602	891,647	688,854	563,104	600,274
Bar sized shapes.....	230,484	215,002	156,311	119,354	126,212
Concrete reinforcing bars.....	584,086	633,338	545,742	534,280	611,461
Other hot rolled bars.....	1,343,722	1,260,283	1,098,700	1,011,897	950,446
Tie plates and track material.....	79,021	70,312	75,072	80,420	87,221
Plates (Incl. plates for pipe & tube).....	1,874,681	1,636,158	1,253,259	1,163,917	1,605,522
Hot rolled sheets & strip.....	2,818,510	2,728,914	2,691,196	2,700,730	2,458,085
Cold finished bars.....	130,704	108,942	93,973	84,046	88,044
Cold reduced sheets and strip, cold rolled other.....	2,134,726	2,107,878	1,955,483	1,945,350	1,678,624
Galvanized sheets.....	1,175,237	1,173,534	983,273	911,542	844,265
Total net shipments.....	13,480,924	12,888,777	11,376,457	10,798,402	10,452,097

Source: Statistics Canada

*Prior to 1980, included only rails.

**Prior to 1980, included structural shapes and piling.

Table 56
Imports of Iron and Steel Products

(Net tons)

Products	1984	1983	1982	1981	1980
Steel Mill Products:					
Ingot, blooms, billets, etc.....	203,074	40,962	17,978	188,521	115,347
Wire rods.....	255,823	151,243	124,403	215,727	117,388
Structural shapes (plain 3" and over).....	206,972	129,600	102,020	343,732	197,630
Sheet piling.....	8,625	10,570	8,387	18,437	13,784
Plates.....	208,856	151,775	225,364	709,810	252,833
Rails and track accessories.....	37,288	22,109	34,981	46,037	32,723
Concrete reinforcing bars.....	6,454	10,979	11,571	16,255	8,970
Bar shapes under 3".....	48,274	35,632	18,030	30,929	10,336
Bars—Hot rolled—Carbon.....	77,683	58,068	36,565	76,505	37,510
—Alloy.....	85,033	71,526	56,949	47,437	27,249
—Cold finished.....	18,189	11,754	8,670	15,494	13,644
Pipe and tubing.....	344,557	238,641	273,923	400,335	355,049
Wire drawn.....	59,923	46,969	34,789	49,032	38,830
Barbed wire.....	3,345	1,856	2,360	2,396	1,272
Wire nails.....	16,940	15,372	11,918	20,535	13,294
Tin plate.....	2,384	2,425	4,835	4,042	2,132
Terne plate.....	20,228	20,332	14,050	15,932	13,052
Sheets—Hot rolled.....	159,203	143,322	91,448	665,885	152,343
—Cold rolled.....	197,975	120,439	99,248	211,269	75,695
Sheet & strip (Coated, incl. galvanized).....	129,574	108,812	101,102	163,338	65,840
All other sheet and strip.....	30,806	27,019	42,333	78,381	51,173
Total Steel Mill Products.....	2,121,206	1,410,407	1,320,924	3,320,009	1,596,094
Other Steel Products:					
Steel castings and forgings.....	13,041	12,054	13,044	15,273	19,189
Bars and rods, fabricated.....	5,954	3,042	3,796	5,036	4,196
Plates, flanged and dished.....	1,643	1,804	3,565	5,004	5,073
Plates, sheets and strip for saws.....	3,830	2,969	2,455	6,405	9,290
Plates, fabricated.....	4,717	3,521	5,344	12,707	7,761
Sheet and strip, fabricated.....	10,127	7,916	7,835	14,581	5,977
Structural shapes, fabricated.....	2,972	3,029	4,194	7,449	6,502
Wire strand.....	6,993	5,648	4,873	6,660	1,952
Wire rope.....	16,039	15,283	12,318	13,976	15,857
Grinding balls.....	15,612	12,608	8,373	17,709	8,851
Total Other Steel Products.....	80,898	67,674	65,797	104,800	64,848
Total Steel Products.....	2,202,104	1,478,081	1,386,721	3,424,809	1,660,942
Iron Products and Ferroalloys:					
Pig iron.....	5,808	5,353	2,708	7,677	2,287
Sponge iron.....	3,195	2,082	2,456	4,978	4,270
Castings and forgings.....	34,772	29,502	15,385	17,950	19,544
Pipes and tubes, cast iron.....	3,821	1,030	1,291	1,587	1,025
Ferroalloys.....	109,696	78,394	68,079	115,982	107,587
Total Iron Products and Ferroalloys.....	157,492	116,381	89,919	148,184	134,713
Grand Total.....	2,359,596	1,603,842	1,476,640	3,572,993	1,815,455

Source: Statistics Canada.

Table 57
Exports of Iron and Steel Products

(Net tons)					
Products	1984	1983 ^R	1982	1981	1980
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	274,523	638,325	284,823	986,122	360,088
Wire rods.....	368,609	304,826	377,712	358,868	597,284
Structural shapes and piling.....	277,979	249,993	235,137	295,896	330,038
Plates.....	197,132	153,931	276,005	329,366	374,748
Rail and track accessories.....	72,632	20,545	61,915	212,402	279,652
Bars—Hot rolled.....	284,114	303,796	225,396	294,672	320,232
—Cold finished.....	32,299	19,406	15,035	16,527	9,323
Pipe and tubing.....	445,167	251,438	275,233	513,282	398,392
Wire, plain and coated.....	183,435	141,898	98,039	107,831	94,984
Wire nails.....	68,337	76,151	73,969	70,838	81,725
Sheets and strip.....	882,997	564,687	1,216,026	581,122	866,861
Sheets and strip—Galvanized.....	318,111	230,400	380,649	173,708	182,966
Total Steel Mill Products.....	3,403,335	2,955,396	3,519,739	3,940,634	3,896,293
Other Steel Products:					
Bars and rods, fabricated.....	14,369	9,908	6,269	4,069	7,563
Grinding balls.....	1,400	112	3,790	10,383	9,509
Castings and forgings.....	56,957	41,946	40,617	51,705	50,847
Wire rope and strand.....	7,357	5,245	8,087	9,959	9,611
Total Other Steel Products.....	80,083	57,211	58,763	76,116	77,530
Total Steel Products.....	3,483,418	3,012,607	3,578,502	4,016,750	3,973,823
Iron Products and Ferroalloys:					
Pig iron.....	432,256	383,913	535,304	514,074	619,886
Sponge iron.....	50,192	40,717	31,994	135,870	196,550
Iron castings.....	96,411	82,152	70,678	96,517	85,728
Pipe and tubes, cast iron.....	8,604	14,874	30,246	41,087	30,120
Ferroalloys.....	54,456	57,903	63,517	126,507	76,805
Total Iron Products and Ferroalloys.....	641,919	579,559	731,739	914,055	1,009,089
Grand Total.....	4,125,337	3,592,166	4,310,241	4,930,805	4,982,912

Source: Statistics Canada.

Table 58
Consumption of Coal

(Thousands of net tons)

Year	In production of Coke	Total
1984	7,212	7,214
1983	6,228	6,229
1982	5,500	5,504
1981	6,933	6,937
1980	7,624	7,627
1979	7,668	7,668
1978	7,528	7,532
1977	7,268	7,269
1976	7,922	7,923
1975	7,698	7,700

Table 59
Consumption of Coke

(Thousands of net tons)

Year	In Blast Furnaces*	Total
1984	5,069	5,071
1983	4,635	4,636
1982	3,693	3,695
1981	4,283	4,235
1980	5,123	5,126
1979	4,859	4,863
1978	4,906	4,908
1977	4,838	4,839
1976	5,131	5,133
1975	4,953	4,997

*Blast furnaces producing pig iron and ferroalloys.

Table 60
Consumption of Fuel Oil
(Thousands of gallons)

Year	In Melting Furnaces	In Heating and Annealing Furnaces	Other Purposes	Total
1984	49,668	19,555	6,339	75,562
1983	55,577	19,329	5,802	80,708
1982	73,801	20,227	10,793	104,821
1981	148,967	17,692	7,421	174,080
1980	145,451	21,088	17,030	183,569
1979	162,770	25,779	5,647	194,196
1978	191,621	30,317	15,145	237,083
1977	158,013	30,111	8,356	196,480
1976	110,254	33,239	9,443	152,936
1975	98,691	28,132	12,813	139,636

Table 61
Consumption of Fluxes in Steelmaking Furnaces
(Thousands of net tons)

Year	Fluorspar	Limestone	Lime	Other Fluxes	Total
1984	28	75	767	179	1,049
1983	24	67	748	159	998
1982	26	88	678	132	924
1981	29	89	786	122	1,026
1980	38	112	764	121	1,035
1979	33	130	821	131	1,115
1978	37	107	801	147	1,092
1977	30	90	755	145	1,020
1976	26	113	810	99	1,048
1975	24	122	756	91	993

Table 62
Consumption of Oxygen
(Millions of cubic feet)

	1984	1983	1982	1981	1980
Consumption By Uses:					
Conditioning	1,470	1,383	1,206	1,426	2,021
Scrap preparation	346	348	269	257	345
Other burning and welding	184	160	185	159	182
Blast furnaces	1,137	1,086	941	5,857	5,077
Steelmaking:					
Open hearth	2,374	1,367	3,196	3,949	6,005
Basic oxygen process & Electric	19,915	17,849	15,024	17,837	18,061
Total steelmaking	22,289	19,216	18,220	21,786	24,066
Maintenance & construction	29	26	21	19	22
All other	1,174	1,532	2,148	2,828	690
Total	26,629	23,751	22,990	32,332	32,403

NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 63
Consumption of Pig Iron
(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking	Total
1984	9,975	223	10,198
1983	8,801	169	8,970
1982	8,154	134	8,288
1981	9,858	272	10,130
1980	10,917	285	11,202

WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by the Bureau of Mines of the United States Department of the Interior, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik, and the International Iron and Steel Institute.

Table 64
World Production of Iron Ore, Concentrates and Agglomerates by Countries
(Thousands of gross tons)

Countries	1984 ^a		1983 ^a		1982 ^a		1981 ^a		1980	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States.....	51,275	...	37,967	5.5	35,433	4.7	73,174	8.8	69,613	8.0
Canada.....	40,417	...	32,351	4.6	33,951	4.4	48,768	5.8	47,984	5.5
Total	91,692	...	70,318	10.1	69,384	9.1	121,942	14.6	117,597	13.5
Latin America										
Argentina.....			354	...	354	...	376	...	405	...
Brazil.....			54,744	...	81,208	...	83,003	...	105,494	...
Chile.....			5,923	...	6,256	...	7,362	...	8,819	...
Colombia.....			411	...	438	...	405	...	483	...
Mexico.....			8,156	...	8,656	...	8,598	...	8,020	...
Peru.....			3,527	...	5,540	...	5,860	...	5,589	...
Venezuela.....			9,035	...	11,244	...	12,971	...	13,465	...
Total			82,150	11.8	113,997	15.0	118,576	14.2	142,275	16.3
Europe										
Western Europe										
EEC										
France.....			15,920	...	19,355	...	21,528	...	28,738	...
Italy.....			...	...	7	...	138	...	213	...
Luxembourg.....			...	...	...	...	422	...	551	...
West Germany.....			962	...	1,291	...	1,547	...	1,914	...
United Kingdom.....			378	...	463	...	719	...	902	...
Greece (a).....			1,310	...	507	...	1,258	...	1,429	...
Total EEC			18,569	2.7	21,623	2.8	25,612	3.1	32,318	3.7
Other Western Europe										
Austria.....			3,540	...	3,335	...	2,998	...	3,218	...
Finland.....			956	...	874	...	849	...	797	...
Norway.....			3,538	...	3,214	...	3,999	...	3,747	...
Portugal.....			33	...	30	...	36	...	55	...
Spain.....			7,450	...	7,500	...	8,278	...	8,725	...
Sweden.....			13,212	...	15,883	...	22,858	...	26,755	...
Turkey.....			4,251	...	2,604	...	2,835	...	2,533	...
Yugoslavia (b).....			5,068	...	5,024	...	4,717	...	4,433	...
Total Other										
Western Europe.....			38,048	5.4	36,464	5.1	46,570	5.6	51,692	5.9
Total Western Europe			58,617	8.1	60,087	7.9	72,182	8.7	84,010	9.6

(a) Included in Other Western Europe prior to 1981.

(b) Communist Bloc.

Table 64 (continued)
World Production of Iron Ore, Concentrates and Agglomerates by Countries
 (Thousands of gross tons)

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 WORLD
 Iron Ore

Countries	1984 ^P		1983 ^A		1982 ^A		1981 ^A		1980	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria.....			1,860	...	1,527	...	1,726	...	1,856	...
Czechoslovakia.....			1,873	...	1,832	...	1,904	...	1,897	...
East Germany.....			45	...	40	...	40	...	50	...
Hungary.....			434	...	458	...	415	...	425	...
Poland.....			48	...	48	...	103	...	102	...
Rumania.....			2,112	...	2,112	...	2,268	...	2,256	...
U.S.S.R.			242,500	...	240,551	...	238,588	...	240,897	...
Total Eastern Europe.....			246,872	35.6	246,568	32.5	245,044	29.2	247,523	28.4
Total Europe.....			305,489	43.7	306,655	40.4	317,228	37.9	331,533	38.0
Africa										
Algeria.....			3,543	..	3,543	...	3,297	...	3,445	...
Liberia.....			18,897	...	18,897	...	19,389	...	18,060	...
Mauritania.....			7,874	...	7,874	...	8,740	...	8,464	...
Zimbabwe.....			983	...	824	...	1,079	...	1,584	...
South Africa, Republic of.....			14,914	...	24,167	...	27,873	...	25,983	...
Other.....			500	...	500	...	439	...	452	...
Total.....			46,711	6.7	55,805	7.4	60,817	7.2	57,978	6.7
Middle East										
Iran.....			472	...	472	...	492	...	492	...
United Arab Republic (Egypt).....			2,264	...	2,175	...	1,772	...	1,747	...
Total.....			2,736	0.4	2,647	0.3	2,264	0.3	2,239	0.3
Far East										
India.....			36,375	...	41,337	...	40,805	...	40,274	...
Japan.....			293	...	356	...	434	...	470	...
Malaysia.....			104	...	331	...	523	...	365	...
South Korea.....			574	...	546	...	546	...	479	...
Other.....			159	...	159	...	144	...	156	...
Total.....			37,505	5.4	42,729	5.6	42,452	5.1	41,744	4.8
Far East										
(Communist Bloc)										
China.....			68,895	...	68,895	...	68,895	...	70,883	...
North Korea.....			8,858	...	8,858	...	8,858	...	8,858	...
Total.....			77,753	11.1	77,753	10.3	77,753	9.3	79,721	9.2
Oceania										
Australia.....			75,716	10.8	89,721	11.9	95,911	11.4	97,569	11.2
Total World.....			666,378	100.0	758,391	100.0	836,941	100.0	870,850	100.0

Source: United States—Bureau of Mines; other countries—Statistical Quarterly Report for Iron and Steel Industry, Statistisches Bundesamt, Außenstelle Düsseldorf, Eisen- und Stahlstatistik.

NOTE: 1984 preliminary data for foreign countries was not available at time this report went to press.

Table 65
World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1984 ^P		1983 ^A		1982 ^A		1981 ^A		1980 ^A	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States.....	51,904	9.6	48,706	9.6	43,309	8.6	73,570	13.3	66,721	12.3
Canada.....	10,630	2.0	9,443	1.9	8,819	1.8	10,740	1.9	12,007	2.1
Total	62,534	11.6	58,149	11.5	52,128	10.4	84,310	15.2	80,728	14.4
Latin America										
Argentina.....	989	...	1,006	...	1,121	...	1,009	...	1,142	...
Brazil.....	15,152	...	14,299	...	11,936	...	11,862	...	13,984	...
Chile.....	654	...	595	...	499	...	653	...	713	...
Colombia.....	299	...	295	...	265	...	256	...	310	...
Mexico.....	4,265	...	3,898	...	3,961	...	4,152	...	4,011	...
Peru.....	...	...	125	...	179	...	195	...	289	...
Venezuela.....	360	...	186	...	223	...	463	...	548	...
Total	21,719	4.0	20,375	4.0	18,162	3.6	18,689	3.4	20,967	3.7
Europe										
Western Europe										
EEC										
Belgium.....	9,888	...	8,855	...	8,632	...	10,812	...	10,913	...
Luxembourg.....	3,051	...	2,553	...	2,852	...	3,185	...	3,934	...
France.....	16,239	...	14,881	...	16,220	...	18,696	...	20,568	...
Italy.....	12,818	...	11,368	...	12,717	...	13,513	...	13,392	...
Netherlands.....	5,430	...	4,130	...	3,967	...	5,071	...	4,771	...
West Germany.....	32,974	...	29,319	...	30,447	...	35,137	...	37,338	...
United Kingdom.....	10,471	...	10,446	...	9,179	...	10,439	...	6,905	...
Greece (a).....	138	...	138	...	110	...	44	...	110	...
Total EEC	91,008	16.6	81,690	16.1	84,144	16.7	96,697	17.6	97,641	17.4
Other Western Europe										
Austria.....	4,128	...	3,660	...	3,434	...	3,623	...	3,542	...
Finland.....	2,253	...	2,092	...	2,143	...	2,166	...	2,226	...
Norway.....	607	...	657	...	534	...	628	...	681	...
Portugal.....	411	...	391	...	236	...	346	...	408	...
Spain.....	5,884	...	5,973	...	6,612	...	6,898	...	7,022	...
Sweden.....	2,440	...	2,217	...	1,961	...	1,951	...	2,620	...
Switzerland.....	11	...	11	...	11	...	36	...	36	...
Turkey.....	3,161	...	2,997	...	2,396	...	2,260	...	2,359	...
Yugoslavia (b).....	3,035	...	3,126	...	2,978	...	3,104	...	2,685	...
Total Other Western Europe	21,931	4.1	21,124	4.2	20,304	4.0	21,224	3.8	21,969	3.9
Total Western Europe	112,939	20.6	102,815	20.3	104,448	20.7	118,120	21.4	119,610	21.3

(a) Included in Other Western Europe prior to 1981.

(b) Communist Bloc.

Table 65 (continued)
World Production of Pig Iron by Countries
(Thousands of net tons)

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WORLD
Iron Ore

Countries	1984 ^a		1983 ^a		1982 ^a		1981 ^a		1980 ^a	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria.....	1,802	...	1,802	...	1,724	...	1,670	...	1,696	...
Czechoslovakia.....	10,444	...	10,434	...	10,499	...	10,916	...	10,825	...
East Germany.....	2,425	...	2,433	...	2,369	...	2,681	...	2,709	...
Hungary.....	2,315	...	2,270	...	2,426	...	2,438	...	2,440	...
Poland.....	9,921	...	9,028	...	9,521	...	9,763	...	10,033	...
Rumania.....	15,157	...	13,881	...	14,391	...	14,357	...	14,523	...
U.S.S.R.	123,456	...	121,752	...	117,641	...	118,790	...	118,257	...
Total Eastern Europe.....	165,821	30.6	161,600	31.8	158,570	31.5	160,616	29.1	160,484	
Total Europe.....	278,460	51.5	264,415	52.1	263,018	52.2	278,736	50.5	280,313	49.9
Africa										
Zimbabwe.....	772	...	644	...	527	...	709	...	866	...
South Africa, Republic of.....	6,097	...	5,748	...	7,454	...	8,118	...	7,956	...
Algeria.....	1,213	...	1,213	...	1,209	...	989	...	737	...
Tunisia.....	165	...	162	...	107	...	174	...	189	...
Other.....	22	...	22	...	22	...	22	...	22	...
Total.....	8,269	1.5	7,789	1.5	9,319	1.8	10,012	1.8	9,780	1.7
Middle East										
Iran.....	276	...	265	...	243	...	231	...	220	...
United Arab Republic (Egypt).....	716	...	716	...	728	...	716	...	716	...
Total.....	992	0.2	981	0.2	971	0.2	947	0.2	936	0.2
Far East										
India.....	10,432	...	10,099	...	10,626	...	10,443	...	9,379	...
Japan.....	88,627	...	80,397	...	85,599	...	88,237	...	95,945	...
South Korea.....	9,659	...	8,845	...	9,307	...	8,736	...	6,148	...
Taiwan.....	3,704	...	3,764	...	2,971	...	1,776	...	1,900	...
Thailand.....	22	...	22	...	22	...	22	...	19	...
Total.....	112,444	20.6	103,127	20.3	108,525	21.6	108,214	19.8	113,391	20.2
Far East (Communist Bloc)										
China.....	44,092	...	41,204	...	39,143	...	37,661	...	41,914	...
North Korea.....	6,338	...	6,063	...	5,787	...	5,512	...	5,952	...
Total.....	50,430	9.3	47,267	9.3	44,930	8.9	43,173	7.8	47,866	8.5
Oceania										
Australia.....	5,673	1.1	5,580	1.1	6,562	1.3	7,430	1.3	7,890	1.4
Total World.....	540,721	100.0	507,883	100.0	503,635	100.0	552,411	100.0	561,671	100.0

NOTE: Detail does not necessarily add to totals.

Source: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other Countries—International Iron and Steel Institute.

Table 66
World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1984 ^a		1983 ^a		1982		1981		1980	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States.....	92,528	11.8	84,615	11.6	74,577	10.5	120,828	15.5	111,835	14.2
Canada.....	16,058	2.1	14,030	1.9	12,966	1.8	16,135	2.1	17,528	2.2
Total	108,586	13.9	98,645	13.5	87,543	12.3	136,963	17.6	129,363	16.4
Latin America										
Argentina.....	2,899	...	3,243	...	3,211	...	2,784	...	2,962	...
Brazil.....	20,272	...	16,172	...	14,324	...	14,521	...	16,875	...
Chile.....	754	...	674	...	532	...	724	...	823	...
Colombia.....	550	...	519	...	451	...	436	...	443	...
Cuba (a).....	331	...	331	...	364	...	364	...	331	...
Mexico.....	8,247	...	7,625	...	7,778	...	8,382	...	7,825	...
Peru.....	356	...	319	...	303	...	397	...	518	...
Venezuela.....	3,026	...	2,557	...	2,511	...	2,236	...	2,006	...
Others.....	415	...	407	...	396	...	266	...	152	...
Total	36,850	4.7	31,838	4.4	29,870	4.2	30,110	3.9	31,935	4.0
Europe										
Western Europe										
EEC										
Belgium.....	16,851	...	14,826	...	14,883	...	17,716	...	18,673	...
Luxembourg.....	604	...	543	...	617	...	675	...	809	...
Denmark.....	20,949	...	19,381	...	20,285	...	23,431	...	25,547	...
France.....	43,418	...	39,384	...	39,551	...	45,863	...	48,323	...
West Germany.....	183	...	155	...	67	...	35	...	2	...
Ireland.....	26,484	...	24,042	...	26,466	...	27,309	...	29,212	...
Italy.....	6,325	...	4,942	...	4,799	...	6,031	...	5,803	...
Netherlands.....	16,757	...	16,519	...	15,107	...	17,165	...	12,431	...
United Kingdom.....	970	...	957	...	1,003	...	1,002	...	1,323	...
Greece (b).....										
Total EEC	132,542	16.9	120,749	16.5	122,779	17.3	139,227	17.9	140,800	17.8
Other Western Europe										
Austria.....	5,366	...	4,862	...	4,694	...	5,132	...	5,096	...
Finland.....	2,903	...	2,663	...	2,661	...	2,676	...	2,765	...
Norway.....	970	...	988	...	830	...	935	...	950	...
Portugal.....	757	...	739	...	578	...	611	...	726	...
Spain.....	14,863	...	14,340	...	14,491	...	14,214	...	13,936	...
Sweden.....	5,187	...	4,641	...	4,299	...	4,155	...	4,670	...
Switzerland.....	920	...	920	...	920	...	1,065	...	1,024	...
Turkey.....	4,738	...	4,227	...	3,134	...	2,673	...	2,795	...
Yugoslavia (a).....	4,656	...	4,557	...	4,292	...	4,383	...	4,006	...
Total Other Western Europe	40,382	5.2	37,937	5.2	35,839	5.0	35,844	4.6	37,291	4.7
Total Western Europe	172,903	22.1	158,686	21.7	158,618	22.3	175,071	22.5	178,091	22.5

(a) Communist Bloc.

(b) Included in Other Western Europe prior to 1981.

Table 66 (continued)
World Production of Raw Steel by Countries
(Thousands of net tons)

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WORLD
Steel

	1984 ^a		1983 ^a		1982		1981		1980	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria.....	3,086	...	3,114	...	2,851	...	2,737	...	2,830	...
Czechoslovakia.....	16,711	...	16,561	...	16,570	...	16,831	...	16,452	...
East Germany.....	7,959 ¹	...	7,958	...	7,901	...	8,230	...	8,056	...
Hungary.....	4,079	...	3,987	...	4,081	...	4,018	...	4,152	...
Poland.....	17,967	...	17,897	...	16,309	...	17,325	...	21,478	...
Rumania.....	15,157	...	13,881	...	14,391	...	14,356	...	14,523	...
U.S.S.R.....	170,857	...	168,113	...	162,207	...	163,695	...	163,064	...
Total Eastern Europe.....	235,815	30.2	231,511	31.7	224,308	31.6	227,192	29.1	230,555	29.2
Total Europe.....	408,718	52.3	390,197	53.4	382,926	53.9	402,263	51.8	408,646	51.7
Africa										
Zimbabwe.....	682	...	713	...	606	...	762	...	887	...
Republic of South Africa.....	8,493	...	7,721	...	9,039	...	9,925	...	9,996	...
Others.....	1,242	...	1,235	...	1,077	...	1,071	...	950	...
Total.....	10,617	1.4	9,669	1.3	10,722	1.5	11,758	1.5	11,833	1.5
Middle East										
Egypt.....	937	...	937	...	1,047	...	992	...	882	...
Israel.....	101	...	91	...	96	...	126	...	127	...
Iran.....	1,323	...	1,323	...	1,323	...	1,323	...	1,323	...
Others.....	1,676	...	1,179	...	766	...	715	...	624	...
Total.....	4,037	0.5	3,530	0.5	3,232	0.5	3,156	0.4	2,956	0.4
Asia										
India.....	11,587	...	11,284	...	12,122	...	11,865	...	10,487	...
Japan.....	116,385	...	107,109	...	109,732	...	112,067	...	122,791	...
South Korea.....	14,366	...	13,134	...	12,961	...	11,852	...	9,433	...
Taiwan.....	5,523	...	5,546	...	4,577	...	3,480	...	4,657	...
Others.....	3,431	...	2,706	...	2,444	...	1,926	...	2,388	...
Total.....	151,292	19.3	139,779	19.1	141,836	20.0	141,190	18.1	149,756	18.9
Asia (Communist Bloc)										
China.....	47,796	...	44,114	...	40,915	...	39,238	...	40,918	...
North Korea.....	7,165	...	6,724	...	6,393	...	6,062	...	6,393	...
Total.....	54,961	7.0	50,838	6.9	47,308	6.6	45,300	5.8	47,311	6.0
Oceania										
Australia.....	6,842	...	6,176	...	7,023	...	8,415	...	8,365	...
New Zealand.....	309	...	258	...	278	...	244	...	254	...
Total.....	7,151	0.9	6,434	0.9	7,301	1.0	8,659	1.1	8,619	1.1
Total Free World.....	486,449	62.2	443,693	60.7	434,525	61.1	502,180	64.4	508,216	64.8
Total Communist Bloc.....	295,763	37.8	287,237	39.3	276,213	38.9	277,239	35.6	282,203	35.2
Total World.....	782,212	100.0	730,930	100.0	710,738	100.0	779,399	100.0	790,419	100.0

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and Steel Institute as follows. 1984—956¹; 1983—729; 1982—1,017; 1981—1,743; 1980—1,878; (in thousands of net tons).

SOURCE: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other Countries—International Iron and Steel Institute.